ISSN 0039-6028

surface science

A journal devoted to the physics and chemistry of interfaces

North-Holland—Amsterdam

ADVISORY EDITORIAL BOARD

CANADA: P.R. Norton, *London, Ontario*
CHINA: Xie Xide, *Shanghai*
FRANCE: M. Balkanski, *Paris*, L. Dobrzynski, *Villeneuve d'Ascq*
GERMANY: E. Bauer, *Clausthal–Zellerfeld*, G. Comsa, *Jülich*, G. Ertl, *Berlin*
JAPAN: Shinji Kawaji, *Tokyo*
UK: T.B. Grimley, *Liverpool*, M.W. Roberts, *Cardiff*, R.F. Willis, *Cambridge*
USA: C.B. Duke, *Richland, WA*, P.J. Feibelman, *Albuquerque, NM*, T.E. Fischer, *Hoboken, NJ*, H.D. Hagstrum, *Summit, NJ*, T.N. Rhodin, *Ithaca, NY*
USSR: V.F. Kiselev, *Moscow*

EDITORIAL ADDRESSES:

Editor:
Professor Harry C. Gatos, Bldg. 13, Massachusetts Institute of Technology, Cambridge, MA 02139, USA

Regional Editors:
Professor G. Comsa, Institut für Grenzflächenforschung und Vakuumphysik der Kernforschungsanlage Jülich GmbH, Postfach 1913, D-5170 Jülich 1, Fed. Rep. of Germany
Professor Shinji Kawaji, Department of Physics, Gakushuin University, 1-5-1 Mejiro, Toshima-ku, Tokyo 171, Japan
Dr. R.F. Willis, Cavendish Laboratory, Department of Physics, University of Cambridge, Madingley Road, Cambridge CB3 0HE, UK

Contributions must be written in English. They should be submitted in triplicate with original drawings of the figures (no larger than ca. 20×30 cm) and an abstract in English.
All manuscripts, other than Letters, originating in the Federal Republic of Germany, the German Democratic Republic and Austria, should be submitted to the Regional Editor in Germany.
All manuscripts, other than Letters, originating in European Countries, other than those mentioned above, as well as those originating in Africa, should be submitted to the Regional Editor in the UK.
All manuscripts, other than Letters, originating in Japan, should be submitted to the Regional Editor in Japan.
All manuscripts originating in North and South America, in Asia (except Japan), in Australia or New Zealand, should be submitted to the Editor.

The authors are encouraged to list the names (and addresses) of three to four individuals who are qualified to serve as referees for their paper. The proposed referees should preferably (but not necessarily) reside in the same country or continent as the editor or regional editor to whom the paper is submitted. The referees selected will not necessarily be from the list suggested by the author.

All Surface Science Letters regardless of country of origin, should be submitted directly to the Editor.

Surface Science is published in semi-monthly issues. For 1988, 16 volumes have been announced. The subscription price for these volumes is Dfl. 5840.00 (US$ 3155). Postage and handling amount to Dfl. 416.00 (US$ 225). Therefore the total price is Dfl. 6256.00 (US$ 3380). The price for a combined subscription to the 1988 volumes of Surface Science, Applied Surface Science and Surface Science Reports is Dfl. 7392.00 (US$ 3995), including postage and handling. The Dutch guilder prices are definitive; the currency equivalents are for your guidance only.

Subscriptions should be sent to the publisher, Elsevier Science Publishers B.V., Journals Department, P.O. Box 211, 1000 AE Amsterdam, or to any subscription agent or bookseller. Claims for issues not received should be made within three months of publication. If not, they cannot be honoured free of charge.
Books for review should be sent to Professor H.C. Gatos.

Elsevier Science Publishers B.V.: All rights reserved. No part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, without the prior permission of the publisher, Elsevier Science Publishers B.V. (North-Holland Physics Publishing Division), P.O. Box 103, 1000 AC Amsterdam, The Netherlands.
Special regulations for authors – Upon acceptance of an article by the journal, the author(s) will be asked to transfer copyright of the article to the publisher. This transfer will ensure the widest possible dissemination of information.
Submission to this journal of an article entails the author's irrevocable and exclusive authorization of the publisher to collect any sums or considerations for copying or reproduction payable by third parties (as mentioned in article 17 paragraph 2 of the Dutch Copyright Act of 1912 and in the Royal Decree of June 20, 1974 (S. 351) pursuant to article 16b of the Dutch Copyright Act of 1912) and/or to act in or out of Court in connection therewith.
Special regulations for readers in the USA – This journal has been registered with the Copyright Clearance Center, Inc. Consent is given for copying of articles for personal or internal use, or for the personal use of specific clients. This consent is given on the condition that the copier pays through the Center the per-copy fee stated in the code on the first page of each article for copying beyond that permitted by Sections 107 or 108 of the US Copyright Law. The appropriate fee should be forwarded with a copy of the first page of the article to the Copyright Clearance Center, Inc., 21 Congress Street, Salem, MA 01970, USA. If no code appears in an article, the author has not given broad consent to copy and permission to copy must be obtained directly from the author. All articles published prior to 1981 may be copied for a per-copy fee of US$ 2.25, also payable through the Center. (N.B. For review journals this fee is US$ 0.20 per copy per page.) This consent does not extend to other kinds of copying, such as for general distribution, resale, advertising and promotion purposes, or for creating new collective works. Special written permission must be obtained from the publisher for such copying.

No responsibility is assumed by the Publisher for any injury and/or damage to persons or property as a matter of products liability, negligence or otherwise, or from any use or operation of any methods, products, instructions or ideas contained in the material herein. Although all advertising material is expected to conform to ethical standards, inclusion in this publication does not constitute a guarantee or endorsement of the quality or value of such product or of the claims made of it by its manufacturer.

Published Semi-Monthly Printed in The Netherlands

SURFACE SCIENCE

ADVISORY EDITORIAL BOARD

M. Balkanski, *Paris*
E. Bauer, *Clausthal–Zellerfeld*
G. Comsa, *Jülich*
L. Dobrzynski, *Villeneuve d'Ascq*
C.B. Duke, *Richland, WA*
G. Ertl, *Berlin*
P.J. Feibelman, *Albuquerque, NM*
T.E. Fischer, *Hoboken, NJ*
T.B. Grimley, *Liverpool*
H.D. Hagstrum, *Summit, NJ*
Shinji Kawaji, *Tokyo*
V.F. Kiselev, *Moscow*
P.R. Norton, *London, Ontario*
T.N. Rhodin, *Ithaca, NY*
M.W. Roberts, *Cardiff*
R.F. Willis, *Cambridge*
Xie Xide, *Shanghai*

Surface Science

JOURNAL DEVOTED TO THE PHYSICS AND CHEMISTRY OF INTERFACES

Editor Harry C. Gatos, Cambridge, MA

Regional Editors:

G. Comsa, S. Kawaji, R.F. Willis

Master Index to Volumes 191–200

NORTH-HOLLAND – AMSTERDAM

© Elsevier Science Publishers B.V. (North-Holland Physics Publishing Division) 1988

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, without the prior permission of the publisher, Elsevier Science Publishers B.V. (North-Holland Physics Publishing Division), P.O. Box 103, 1000 AC Amsterdam, The Netherlands.

Special regulations for authors – Upon acceptance of an article by the journal, the author(s) will be asked to transfer copyright of the article to the publisher. The transfer will ensure the widest possible dissemination of information.

Submission to this journal of an article entails the author's irrevocable and exclusive authorization of the publisher to collect any sums or considerations for copying or reproduction payable by third parties (as mentioned in article 17 paragraph 2 of the Dutch Copyright Act of 1912 and in the Royal Decree of June 20, 1974 (S. 351) pursuant to article 16b of the Dutch Copyright Act of 1912) and/or to act in or out of Court in connection therewith.

Special regulations for readers in the USA – This journal has been registered with the Copyright Clearance Center, Inc. Consent is given for copying of articles for personal or internal use, or for the personal use of specific clients. This consent is given on the condition that the copier pays through the Center the per-copy fee stated in the code on the first page of each article for copying beyond that permitted by Sections 107 or 108 of the US Copyright Law. The appropriate fee should be forwarded with a copy of the first page of the article to the Copyright Clearance Center, Inc., 21 Congress Street, Salem, MA 01970, USA. If no code appears in an article, the author has not given broad consent to copy and permission to copy must be obtained directly from the author. All articles published prior to 1981 may be copied for a per-copy fee of US$ 2.25, also payable through the Center. (N.B. For review journals this fee is US$ 0.20 per copy per page.) This consent does not extend to other kinds of copying, such as for general distribution, resale, advertising and promotion purposes, or for creating new collective works. Special written permission must be obtained from the publisher for such copying.

No responsibility is assumed by the Publisher for any injury and/or damage to persons or property as a matter of products liability, negligence or otherwise, or from any use or operation of any methods, products, instructions or ideas contained in the material herein. Although all advertising material is expected to conform to ethical standards, inclusion in this publication does not constitute a guarantee or endorsement of the quality or value of such product or of the claims made of it by its manufacturer.

PRINTED IN THE NETHERLANDS

AUTHOR INDEX TO VOLUMES 191–200

Abon, M., see Fargues 194 (1988) 149
Abraham, M., see Schellenberger 192 (1987) 555
Abstreiter, G., T. Egeler, S. Beeck, A. Seilmeier, H.J. Hübner, G. Weimann and W. Schlapp, Electronic excitations in narrow GaAs/$Al_xGa_{1-x}As$ quantum well structures 196 (1988) 613
Adachi, H., see Kuwabara 193 (1988) 271
Adamowicz, B. and S. Kochowski, The contribution of surface effects to the surface photovoltage dependence on temperature for the real Si(111) surface 200 (1988) 172
Adams, D.L., see Sowa 199 (1988) 174
Adams, J.E., see Fleischmann 193 (1988) 593
Adams, P.W. and M.A. Paalanen, Localization effects in a non-degenerate 2DEG 196 (1988) 150
Adnot, A., see McBreen 194 (1988) L112
Adnot, A., see McBreen 195 (1988) L208
Ageev, V.N., O.P. Burmistrova and B.V. Yakshinskii, Electron-stimulated alkali metal desorption from the oxygen monolayer-covered tungsten surface 194 (1988) 101
Agrawal, P.M., D.L. Thompson and L.M. Raff, Computational studies of heterogeneous reactions of SiH_2 on Si(111) surfaces 195 (1988) 283
Aizaki, N., see Hirayama 193 (1988) L47
Aizawa, T., see Wuttig 192 (1987) 573
Aizawa, T., see Wuttig 193 (1988) 180
Aizawa, T., see Souda 194 (1988) L119
Akera, H., S. Wakahara and T. Ando, Connection rule of envelope functions at heterointerface 196 (1988) 694
Akhter, S., see Blass 191 (1987) 406
Akhter, S., see Zhu 195 (1988) L145
Akinci, G., T.R. Ohno and E.D. Williams, $NiSi_2$ on Si(111). I. Effects of substrate cleaning procedure and reconstruction 193 (1988) 534
Albert, M.R. and J.T. Yates, Jr., Evidence for a surface vacancy requirement in the formation of ethylidyne from ethylene on Pd particles 192 (1987) 225
Albert, M.R., see Lu 199 (1988) L406
Alexander, M.H., see Corey 191 (1987) 203
Allen, L.R., see Conrad 198 (1988) 207
Allen, R.E., see Menon 197 (1988) L237
Allen, Jr., S.J., see Roukes 196 (1988) 79
Allen, V.M., W.E. Jones and P.D. Pacey, A molecular orbital study of carbon monoxide adsorption on a MnO surface 199 (1988) 309
Altarelli, M. and G. Platero, Magnetic hole levels in quantum wells in a parallel field 196 (1988) 540
Altman, E.I. and R.J. Gorte, A comparison of the desorption of CO from Pt and Rh particles on α-Al_2O_3{0001} 195 (1988) 392

Altsinger, R., H. Busch, M. Horn and M. Henzler, Nucleation and growth during molecular beam epitaxy (MBE) of Si on Si(111) 200 (1988) 235
Alves, E.S., see Payling 196 (1988) 404
Alvey, M.D., see Dresser 191 (1987) 1
Alvey, M.D., see Lanzillotto 191 (1987) 15
Amirav, A., see Danon 193 (1988) 132
Amirav, A. and M.J. Cardillo, Ion emission due to the scattering of hyperthermal Xe atoms from single crystal surfaces 198 (1988) 192
Amos, A.T., see Sulston 197 (1988) 555
Andersen, J.N., Comment on 'On the structure of chemisorbed sulphur overlayers on Ni(100)' by W. Daum 192 (1987) L866
Andersen, J.N., Adsorption of H_2S on Ni(100): kinetics and structure 192 (1987) 583
Anderson, A.B., see Chu 194 (1988) 55
Andersson, S., see Westerlund 199 (1988) 109
Ando, K., see Saiki 192 (1987) 1
Ando, T., Localization in two-dimensional square lattices: effects of magnetic field and spin–orbit interaction 196 (1988) 120
Ando, T., see Akera 196 (1988) 694
Andrei, E.Y., see Glattli 196 (1988) 17
Andrei, E.Y., D.C. Glattli, F.I.B. Williams and M. Heiblum, Low frequency collective excitations in the quantum-Hall system 196 (1988) 501
Aoki, H., Localisation in the quantum Hall regime 196 (1988) 107
Aono, M., see Souda 199 (1988) 154
Aoto, N., E. Ikawa and Y. Kurogi, Low-energy electron energy loss spectroscopy of Cl adsorbed Si(111), Si(100) and Si(110) surfaces 199 (1988) 408
Arabczyk, W., M. Militzer, H.-J. Müssig and J. Wieting, Contribution of pipe diffusion to surface segregation kinetics 198 (1988) 167
Armand, G., see Manson 195 (1988) 513
Arnott, M., see Clarke 192 (1987) L843
Arthur, J.R., see Martin 196 (1988) 323
Aruga, T., see Onishi 191 (1987) 479
Aruga, T., see Onishi 193 (1988) 33
Aruga, T., see Onishi 199 (1988) 54
Asbury, D.A. and G.B. Hoflund, The influence of annealing and low-pressure oxygen exposure on a sputtered Pt_3Sn alloy surface. III 199 (1988) 552
Asensio, M.C., see Michel 198 (1988) L365
Asscher, M., see Haase 191 (1987) 75
Astaldi, C. and K. Jacobi, Photoemission from xenon clusters on barium 200 (1988) 15
Atanasoski, R.T., see Kozlowski 194 (1988) 505
Au, C.T., W. Hirsch and W. Hirschwald, Adsorption of carbon monoxide and carbon dioxide on annealed and defect zinc oxide ($000\bar{1}$) surfaces studied by photoelectron spectroscopy (XPS and UPS) 197 (1988) 391
Au, C.T., W. Hirsch and W. Hirschwald, Adsorption and interaction of carbon dioxide, formic acid and hydrogen/carbon dioxide mixtures on ($10\bar{1}0$) zinc oxide surfaces studied by photoelectron spectroscopy (XPS and UPS) 199 (1988) 507
Auerbach, D.J., see Rettner 192 (1987) 107
Auleytner, J., Bremsstrahlung isochromat spectroscopy in the study of surfaces 200 (1988) 504
Awschalom, D.D., G. Grinstein, J. Yoshino, H. Munekata and L.L. Chang, Dimensional dependence of magnetic susceptibility in dilute magnetic semiconductor superlattices 196 (1988) 649

Babiker, M., M.P. Chamberlain, A. Ghosal and B.K. Ridley, A new resonance phenomenon associated with electron transitions in superlattices and single quantum wells 196 (1988) 422
Baddorf, A., see Heskett 195 (1988) 94
Baddorf, A.P., see Mundenar 198 (1988) L309
Badziag, P. and W.S. Verwoerd, Cluster modelling of the 2×1 chain reconstruction of the diamond (111) surface 194 (1988) 535
Baetzold, R.C., Y.T. Tan and P.W. Tasker, A computational approach to silver halide surfaces 195 (1988) 579
Bakaev, V.A., Towards the molecular theory of physical adsorption on heterogeneous surfaces 198 (1988) 571
Baldwin, K.W., see Willett 196 (1988) 257
Bangert, E., see Waag 196 (1988) 328
Bao Xinhe, Dong Shuzhong and Deng Jingfa, Adsorption of oxygen on electrolytic silver by UPS and work function measurement 199 (1988) 493
Bardi, U., see Tamura 197 (1988) L281
Barnard, J.A., P. Wynblatt, W.C. Johnson and W.W. Mullins, Surface segregation in solid and liquid Sn–Pb alloys 197 (1988) 363
Barnaś, J., Bulk and surface magnetostatic modes in superlattices 200 (1988) 446
Barnett, S.A. and A. Rockett, Monte Carlo simulations of Si(001) growth and reconstruction during molecular beam epitaxy 198 (1988) 133
Barteau, M.A., see Peng 195 (1988) 103
Barteau, M.A., see Vohs 197 (1988) 109
Barteau, M.A., see Davis 197 (1988) 123
Barthel, A., see Heinz 191 (1987) 174
Barwiński, B., Influence of the dielectric overcoat on the low frequency noise in discontinuous metal films 200 (1988) 403
Bass, S.J., see Skolnick 196 (1988) 507
Bastard, G., see Brum 196 (1988) 512
Basu, P., see Chen 194 (1988) 397
Basu, P.K., C.K. Sarkar and S. Kundu, Variation of thermopower of two-dimensional electrons in GaAs and InGaAs at low temperatures 196 (1988) 700
Batchelor, D.R., see Holmes 199 (1988) 476
Batich, C.D., see Jeng 193 (1988) L63
Batke, E., see Oelting 196 (1988) 273
Bauer, E., see Pavlovska 195 (1988) 207
Bauer, E., see Telieps 200 (1988) 512
Bauhofer, J., M. Hock and J. Küppers, Vibrational spectroscopy of CO at Ni(110): adsorption energy at adsorption sites 191 (1987) 395
Beard, W., see Mercy 196 (1988) 334
Beaumont, S.P., see Taylor 196 (1988) 52
Bechtold, E., see Gutleben 191 (1987) 157
Beckerle, J.D., Q.Y. Yang, A.D. Johnson and S.T. Ceyer, The adsorption of CO and O_2 on Ni(111) at 8 K 195 (1988) 77
Beebe, E.D., see Roukes 196 (1988) 79
Beeck, S., see Abstreiter 196 (1988) 613
Beenakker, C.W.J., see Van Houten 196 (1988) 144
Behringer, R., see Timp 196 (1988) 68
Behringer, R.E., see Chang 196 (1988) 46
Bell, A.T., see Levin 195 (1988) 341
Bell, A.T., see Levin 195 (1988) 429

Belton, D.N. and S. J. Schmieg, Interaction of $[Rh(CO)_2Cl]_2$ with O_2 oxidized Al(100): effect of Al_2O_3 preparation on $[Rh(CO)_2Cl]_2$ decomposition 199 (1988) 518
Benazeth, C., see Delaunay 195 (1988) 455
Benazeth, N., see Delaunay 195 (1988) 455
Benesh, G.A. and J.R. Hester, Na–Na interactions on Al(001) 194 (1988) 567
Benesh, G.A., see Inglesfield 200 (1988) 135
Benndorf, C., E. Bertel, V. Dose, W. Jacob, N. Memmel and J. Rogozik, An inverse photoemission study of CO adsorption on clean and potassium promoted Ru(001) 191 (1987) 455
Benndorf, C. and T.E. Madey, Adsorption of H_2O on clean and oxygen-predosed Ni(110) 194 (1988) 63
Bensalah, S., see Orlowski 200 (1988) L460
Bensaoula, A., see Grossman 197 (1988) 99
Benson, J.A., J.C. Hansen, M.T. McEllistrem, W.D. Clendening and J.G. Tobin, An investigation of the Au/Ge(001) interface 193 (1988) L37
Bent, B.E., see Mate 197 (1988) 183
Benziger, J.B., see Schoofs 192 (1987) 373
Berghaus, Th., A. Brodde, H. Neddermeyer and St. Tosch, Scanning tunneling microscopy and spectroscopy on 7×7 reconstructed Si(111) surfaces containing defects 193 (1988) 235
Bergman, R., see Salaneck 198 (1988) 461
Bernasek, S.L., see Lu 199 (1988) L406
Bertel, E., see Benndorf 191 (1987) 455
Bertel, E., see Netzer 199 (1988) 87
Bertolini, J.C., see Fargues 194 (1988) 149
Bertrand, O., see Floquet 198 (1988) 449
Besenbacher, F., I. Stensgaard and K. Mortensen, Adsorption position of deuterium on the Pd(100) surface determined with transmission channeling 191 (1987) 288
Bethune, D.S., A.C. Luntz, J.K. Sass and D.K. Roe, Optical analysis of thin-layer electrochemical cells for infrared spectroscopy of adsorbates 197 (1988) 44
Biegański, P., see Dobierzewska-Mozrzymas 200 (1988) 417
Billing, G.D., Laser-assisted molecule–surface collisions 195 (1988) 187
Bindi, R., H. Lanteri and P. Rostaing, Transport model of scattering processes of keV electrons in aluminium 197 (1988) 295
Bishop, D.J., see Gammel 196 (1988) 417
Black, J.E., V.T. Huynh, D.J. Cheng and R.F. Wallis, Surface vibrations on body centered cubic metal surfaces: the (110) surfaces 192 (1987) 541
Blanchard, D.L., see Conrad 198 (1988) 207
Blass, P.M., S. Akhter and J.M. White, The adsorption and decomposition of benzene on Ni(100) and the effects of pre-adsorbed C, O, H, and CO 191 (1987) 406
Błaszczyszyn, R. and M. Błaszczyszynowa, Diffusion of nickel on the (110) region of a tungsten field emitter 200 (1988) 354
Błaszczyszynowa, M., see Błaszczyszyn 200 (1988) 354
Błażej, M., E. Dobierzewska-Mozrzymas and J. Peisert, Conduction model including some fundamental conduction mechanisms for a discontinuous metal film on a dielectric substrate 200 (1988) 408
Bliek, L., G. Hein, D. Jucknischke, V. Kose, J. Niemeyer, G. Weimann and W. Schlapp, Breakdown of dissipationless quantum Hall conduction in narrow channels 196 (1988) 156

Block, J.H., see Schmidt 194 (1988) 127
Blum, L., see Samant 193 (1988) L29
Bodó, Z., see Gergely 200 (1988) 527
Boebinger, G.S., Y. Guldner, J.P. Vieren, M. Voos and J.P. Faurie, Two-dimensional electron gas in HgCdTe/CdTe heterostructures 196 (1988) 669
Bojan, M.J. and W.A. Steele, Computer simulation of physisorption on a heterogeneous surface 199 (1988) L395
Bolech, M., see Vink 194 (1988) 559
Bonzel, H.P., see Pirug 194 (1988) 159
Bonzel, H.P., see Wesner 199 (1988) L419
Bonzel, H.P., see Pirug 199 (1988) 371
Borges, G.L., see Samant 193 (1988) L29
Boring, J.W., see Chrisey 195 (1988) 594
Bornemann, T., A. Otto, K.H. Frank and B. Reihl, On the optical properties of coldly deposited silver films: comparison of EELS and reflectivity spectra 195 (1988) 161
Borroff, R., R. Merlin, R.L. Greene and J. Comas, Observation of coupled quasi-two-dimensional electronic excitations in tilted magnetic fields 196 (1988) 626
Bose, S.M., see Davison 200 (1988) 265
Boulliard, J.C. and M.P. Sotto, Structural study of segregated sulphur on the stepped faces associated with Cu(100) 195 (1988) 255
Bourguignon, B., see Carleton 199 (1988) 447
Bovin, J.-O., see Malm 200 (1988) 67
Bowker, M., B. Wolfindale, D.A. King and G. Lamble, The coadsorption of K and Cl on Ag(100): electronic, kinetic and thermodynamic surface modification by promotion 192 (1987) 95
Bowker, M., I. Parker and K.C. Waugh, The application of surface kinetic data to the industrial synthesis of ammonia 197 (1988) L223
Bowman, J.M., see Wierzbicki 191 (1987) 518
Boxleitner, W., see Lassnig 196 (1988) 367
Bradshaw, A.M., see Somers 198 (1988) 400
Brand, J.L., see Mak 191 (1987) 108
Brand, J.L., A.A. Deckert and S.M. George, Surface diffusion of hydrogen on sulfur-covered Ru(001) surfaces studied using laser-induced thermal desorption 194 (1988) 457
Brass, S.G. and G. Ehrlich, Activated chemisorption of CH_4 and internal molecular motions 191 (1987) L819
Brenner, D.W. and B.J. Garrison, Microscopic mechanisms of reactions associated with silicon MBE: a molecular dynamics investigation 198 (1988) 151
Brodde, A., see Berghaus 193 (1988) 235
Broomfield, K. and R.M. Lambert, Model studies of the effects of σ and π hybridisation on the binding of CO to copper surfaces: a CASSCF study of the $^4\Pi$ state of CuCO 195 (1988) L155
Brown, J.S., see McCann 194 (1988) 44
Brum, J.A., J. Orgonasi, G. Bastard, C. Delalande, M. Voos, G. Weimann and W. Schlapp, Optical properties of one-side modulation-doped quantum wells 196 (1988) 512
Brum, J.A., P. Voisin, M. Voos, L.L. Chang and L. Esaki, Oscillator strengths of interband magneto-optical transitions in strained-layer heterostructures 196 (1988) 545

Brummell, M.A., D.R. Leadley, R.J. Nicholas, J.J. Harris and C.T. Foxon, Competition between LO and TO phonon scattering in GaAs/GaAlAs heterojunctions 196 (1988) 451
Bryant, G.W., Excitons in quantum boxes 196 (1988) 596
Buchanan, M., see D'Iorio 196 (1988) 165
Budde, F., A. Mödl, A.V. Hamza, P.M. Ferm and G. Ertl, State-resolved investigation of the dynamics of scattering and formation of NO at Ge surfaces 192 (1987) 507
Budde, F., see Hamza 199 (1988) 13
Bukaluk, A., M. Rozwadowski and R. Siuda, Preliminary results on Cu diffusion through grain boundaries of thin ion-plated Ag–Sn films 200 (1988) 381
Bunker, G.B., see Toreis 197 (1988) 415
Burke, M.L. and R.J. Madix, SO_2 structure and reactivity on clean and sulfur modified Pd(100) 194 (1988) 223
Burmistrova, O.P., see Ageev 194 (1988) 101
Busch, H., see Altsinger 200 (1988) 235
Butcher, P.N. and J.A. McInnes, Numerical and percolation studies of Ohmic variable-range hopping in 1D 196 (1988) 139

Cabrera, G.G., see Gummich 196 (1988) 643
Calleja, J.M., C. López, C. Tejedor, L. Viña, E.E. Méndez, W.I. Wang, M. Staines and M. Cardona, Study of electric field effects on the electronic structure of quantum wells by resonant Raman scattering 196 (1988) 578
Cameron, S.D. and D.J. Dwyer, Charge transfer effects on CO bond cleavage: CO and potassium on Fe(100) 198 (1988) 315
Campbell, C.T., see Rodriguez 194 (1988) 475
Campbell, C.T., see Rodriguez 197 (1988) 567
Campbell, S., see Cotter 197 (1988) 208
Cardillo, M.J., see Amirav 198 (1988) 192
Cardona, M., see Calleja 196 (1988) 578
Carim, A.H., see Hochella, Jr. 197 (1988) L260
Carleton, K.L., B. Bourguignon and S.R. Leone, Desorption of a two-state system: laser probing of gallium atom spin–orbit states from silicon (100) 199 (1988) 447
Carr, W.E., see Tompa 198 (1988) 431
Carter, P.J.A., see Kent 196 (1988) 410
Cassuto, A., J.J. Ehrhardt, J. Cousty and R. Riwan, Angle-resolved photoemission of xenon adsorbed on Pt(111): the $(\sqrt{3} \times \sqrt{3})R30°$ commensurate layer 194 (1988) 579
Cassuto, A., see Légaré 198 (1988) 69
Castaño, V.M. and W. Krakow, Observation of the epitaxy, oxidation and surface structure of copper on thin gold films by high resolution electron microscopy 191 (1987) 45
Castro, M.E., see Zhu 195 (1988) L145
Caudano, R., see Sporken 193 (1988) 47
Cavell, R.G., see Karolewski 198 (1988) 118
Cazaux, J., see Sharma 193 (1988) L58
Černý, S. and Z. Pientka, Heat of interaction of carbon monoxide with dysprosium 191 (1987) 449
Ceyer, S.T., see Beckerle 195 (1988) 77
Cháb, V., see Prince 200 (1988) L451

Chakarov, D.V., see Marinova 192 (1987) 275
Chakarov, D.V., see Marinova 200 (1988) 309
Chakraborty, B.R., see Sharma 193 (1988) L58
Challis, L.J., see Kent 196 (1988) 410
Chamberlain, J.M., see Rikken 196 (1988) 303
Chamberlain, M.P., see Babiker 196 (1988) 422
Chang, A.M., G. Timp, T.Y. Chang, J.E. Cunningham, B. Chelluri, P.M. Mankiewich, R.E. Behringer and R.E. Howard, Magneto-quantum transport in a quasi-one-dimensional GaAs/$Al_xGa_{1-x}As$ ring 196 (1988) 46
Chang, A.M., see Timp 196 (1988) 68
Chang, L.L., see Smith, III 196 (1988) 287
Chang, L.L., see Brum 196 (1988) 545
Chang, L.L., see Awschalom 196 (1988) 649
Chang, L.L., see Smith, III 196 (1988) 687
Chang, T.Y., see Chang 196 (1988) 46
Chaplik, A.V. and A.O. Govorov, Nonequilibrium charge spreading in two-dimensional electron systems 196 (1988) 719
Chelluri, B., see Chang 196 (1988) 46
Chemla, D.S., see Zucker 196 (1988) 563
Chen, J.G., P. Basu, L. Ng and J.T. Yates, Jr., A comparative study of the reactivities of H_2O, CH_3OH, and CH_3OCH_3 toward Al(111) 194 (1988) 397
Chenery, D.H., M.A. Chesters and E.M. McCash, Time resolved Fourier transform reflection–absorption infrared spectroscopy 198 (1988) 1
Cheng, D.J., see Black 192 (1987) 541
Cheng, J.-P., N.C. Jarosik, B.D. McCombe and K.C. Woo, Cyclotron resonance of electrons in Si n-inversion layers at low densities: many-body effects or localization? 196 (1988) 268
Chesters, M.A., see Chenery 198 (1988) 1
Chidsey, C.E.D., D.N. Loiacono, T. Sleator and S. Nakahara, STM study of the surface morphology of gold on mica 200 (1988) 45
Chitta, V.A., see Marques 196 (1988) 659
Chmielowski, M., M. Gliński, W.H. Zhuang, G.B. Liang, D.Z. Sun, M.Y. Kong, W. Plesiewicz, T. Dietl and T. Skośkiewicz, Fundamental high-field transport properties of a GaAs/AlGaAs modulation doped heterostructure 196 (1988) 299
Cho, K. and Y. Miyamoto, Polarization-dependent angular distribution of resonant photoemission from GaAs(110) surface core exciton 192 (1987) L835
Choi, B.H., see Guvenc 192 (1987) 529
Choi, B.H., see Liu 198 (1988) 79
Choi, B.H., N.L. Liu and X. Shen, Selective adsorption of H_2 + Cu(001) surface. II. Quantum mechanical calculation of quasibound compound states 198 (1988) 99
Chorkendorff, I., see Siddiqui 191 (1987) L813
Chou, M.J., D.C. Tsui and G. Weimann, Cyclotron resonance in the extreme quantum limit 196 (1988) 279
Chrisey, D.B., J.W. Boring, R.E. Johnson and J.A. Phipps, Molecular ejection from low temperature sulfur by keV ions 195 (1988) 594
Christanell, R., see Gornik 196 (1988) 339
Christensen, A.N., see Lindberg 192 (1987) 353
Christmann, K., see Ehsasi 194 (1988) 172

Chu, S.-Y. and A.B. Anderson, Acetylene adsorption on Si(111): molecular orbital theory 194 (1988) 55
Chung, S.G. and T.F. George, Theory of low-temperature adsorption 194 (1988) 347
Chung, Y.W., see Parrill 195 (1988) 443
Clark, R.G., J.R. Mallett, A. Usher, A.M. Suckling, R.J. Nicholas, S.R. Haynes, Y. Journaux, J.J. Harris and C.T. Foxon, Experimental tests of fractional quantum Hall effect theory 196 (1988) 219
Clarke, A., P.J. Rous, M. Arnott, G. Jennings and R.F. Willis, Thickness dependent relaxations in γ fcc Fe films on Cu(001): a LEED structural study 192 (1987) L843
Clendening, W.D., see Benson 193 (1988) L37
Coenen, F.P., see Wesner 199 (1988) L419
Cole, M.W., see Kim 194 (1988) 257
Cole, M.W., see Kim 198 (1988) 555
Colmenares, C.A., see Schultz 198 (1988) 301
Coltrin, M.E., see Kay 198 (1988) L375
Coluccia, S., see Zecchina 194 (1988) 531
Comas, J., see Borroff 196 (1988) 626
Comelli, G. and J. Stöhr, SEXAFS studies of C–C bond lengths in condensed and chemisorbed molecules 200 (1988) 35
Companion, A.L., see Kusuma 195 (1988) 59
Comsa, G., see Kern 195 (1988) 353
Conrad, E.H., L.R. Allen, D.L. Blanchard and T. Engel, Energy resolved measurements of the diffuse scattering near the roughening transition of Ni(113) 198 (1988) 207
Conrad, H., see Somers 198 (1988) 400
Coombs, J.H., M.E. Welland and J.B. Pethica, Experimental barrier heights and the image potential in scanning tunneling microscopy 198 (1988) L353
Corey, G.C., J.E. Smedley, M.H. Alexander and W.-K. Liu, Collisions of NO($X\ ^2\Pi$) with a Ag(111) surface: validity of the energy sudden approximation 191 (1987) 203
Cotter, M., S. Campbell, R.G. Egdell and W.C. Mackrodt, Growth of ordered BaO overlayers on MgO(001) 197 (1988) 208
Cousty, J., see Cassuto 194 (1988) 579
Cowley, J.M., see Wang 193 (1988) 501
Cowley, J.M., see Peng 199 (1988) 609
Craighead, H.G., see Roukes 196 (1988) 79
Crapper, M.D., see Woodruff 195 (1988) 237
Croce, P., see Gergely 200 (1988) 527
Cunningham, J.E., see Chang 196 (1988) 46
Cunningham, J.E., see Timp 196 (1988) 68
Czarnecka-Such, E. and A. Kisiel, Analysis of reflectivity spectra of silicon implanted with 70 keV B, Si, and Ag ions 193 (1988) 221

Da Cunha Lima, I.C., see De Andrada e Silva 196 (1988) 352
Dabiran, A.M., R.T. Zeller, F.F. Fang, S.L. Wright and P.J. Stiles, Electrochemical potential oscillations of the two-dimensional electron gas in GaAs/AlGaAs heterostructures in high magnetic fields 196 (1988) 712
Dahm, A.J., see Jiang 196 (1988) 1
Dai, H.L., see Heskett 197 (1988) 225
Dalidchik, F.I. and N.N. Kolchenko, Resonance field emission for ordered and disordered adsorption of atoms 200 (1988) 536

Damen, T.C., see Deveaud 196 (1988) 386
Dannetun, H., I. Lundström and L.-G. Petersson, Reactions between hydrocarbons and an oxygen covered palladium surface 193 (1988) 109
Danon, A., E. Kolodney and A. Amirav, Dissociation and ionization in hyperthermal 1-iodopropane–diamond scattering 193 (1988) 132
Darici, Y., J. Marcano, H. Min and P.A. Montano, LEED measurements of one monolayer of iron epitaxially grown on Cu(111) 195 (1988) 566
Das Sarma, S., see Xie 196 (1988) 89
Das Sarma, S., see Jain 196 (1988) 466
Daum, W., Reply to "Comment on 'On the structure of chemisorbed sulphur overlayers on Ni(100)' " by J.N. Andersen 192 (1987) L871
David, R., see Kern 195 (1988) 353
Davis, J.L. and M.A. Barteau, The influence of oxygen on the selectivity of alcohol conversion on the Pd(111) surface 197 (1988) 123
Davison, S.G., see Sulston 197 (1988) 555
Davison, S.G., S.M. Bose and K.W. Sulston, Chemisorption on supported-metal catalysts 200 (1988) 265
Dawson, P.T., see Hajcsar 191 (1987) 249
De Andrada e Silva, E.A., I.C. da Cunha Lima, A. Ferreira da Silva and C.E. Leal, Density of states of electrons bound to impurities in quantum wells of GaAlAs/GaAs 196 (1988) 352
De Andres, P.L., P.J. Rous and J.B. Pendry, Phonon scattering in diffuse LEED 193 (1988) 1
De González, C.O. and E.A. García, An X-ray photoelectron spectroscopy study of the surface oxidation of zirconium 193 (1988) 305
De Mello, E.V.L. and M.S.O. Massunaga, Renormalization group studies for hydrogen isotopes adsorbed on graphite 199 (1988) 579
Debernardi, J., see Delaunay 197 (1988) L273
Deckert, A.A., see Brand 194 (1988) 457
Degani, M.H. and O. Hipólito, Electron–interface-phonon interaction in GaAs/AlAs and InAs/GaSb heterojunctions 196 (1988) 459
Degani, M.H., see Marques 196 (1988) 659
Degiovanni, A., see Quentel 193 (1988) 212
Déjardin, P., see Schaaf 191 (1987) 579
Delalande, C., see Brum 196 (1988) 512
Delaunay, M., C. Benazeth, N. Benazeth, R. Geller and C. Mayoral, Electron emission in multiply charged noble gas ion–gold solid target collisions: total and Auger yields 195 (1988) 455
Delaunay, M., R. Geller, J. Debernardi, P. Ludwig and P. Sortais, Electron emission from a metal surface bombarded by highly charged ions 197 (1988) L273
Delrue, J.P., see Sporken 193 (1988) 47
Deng Jingfa, see Bao Xinhe 199 (1988) 493
DePristo, A.E., see Kara 193 (1988) 437
Deveaud, B., J. Shah, T.C. Damen, A. Regreny and B. Lambert, Determination of carrier mobility for Bloch transport in superlattice minibands 196 (1988) 386
DeVegvar, P., see Timp 196 (1988) 68
Devreese, J.T., see Peeters 196 (1988) 437
Diebold, U., A. Preisinger, P. Schattschneider and P. Varga, Angle resolved electron energy loss spectroscopy on graphite 197 (1988) 430
Dietl, T., see Chmielowski 196 (1988) 299

Ding, Z.-J. and R. Shimizu, Monte Carlo study of backscattering and secondary electron generation 197 (1988) 539
D'Iorio, M., A.S. Sachrajda, D. Landheer, M. Buchanan, T. Moore, C.J. Miner and A.J. Springthorpe, Narrow channel breakdown in GaAs/AlGaAs heterostructures 196 (1988) 165
Dittmar-Wituski, A., see Naparty 200 (1988) 519
Djafari Rouhani, B., see Nougaoui 199 (1988) 623
Dobierzewska-Mozrzymas, E., see Błażej 200 (1988) 408
Dobierzewska-Mozrzymas, E. and P. Biegański, Electrical properties of aluminium island films near the percolation threshold 200 (1988) 417
Dobrzynski, L., see Masri 198 (1988) 285
Dobrzynski, L., Interface response theory of composite systems 200 (1988) 435
Doliński, W., S. Mróz and M. Zagórski, Determination of the inelastic mean free path of electrons in silver and copper by measurement and calculation of the elastic scattering coefficient 200 (1988) 361
Domke, M., see Mandel 197 (1988) 81
Dong Shuzhong, see Bao Xinhe 199 (1988) 493
Donnerberg, H., see Klekamp 200 (1988) L465
Dose, V., see Benndorf 191 (1987) 455
Dose, V., see Drube 197 (1988) 317
Dow, J.D., see Sánchez-Dehesa 200 (1988) 424
Dowben, P.A., A. Miller, H.-J. Ruppender and M. Grunze, The influence of surface metal composition of Fe–Cr alloys on the dissociative adsorption of N_2 193 (1988) 336
Dresser, M.J., A.-M. Lanzillotto, M.D. Alvey and J.T. Yates, Jr., Interaction between NH_3 and CO on the Ni(111) and (110) surfaces: a study by ESDIAD 191 (1987) 1
Dresser, M.J., see Lanzillotto 191 (1987) 15
Drew, H.D., see Smith, III 196 (1988) 287
Dreyfus, R.W., see Kelly 198 (1988) 263
Drube, R., V. Dose and A. Goldmann, Empty electronic states at the (1×1) and (5×20) surfaces of Pt(100): an inverse photoemission study 197 (1988) 317
Dückers, K., see Prince 200 (1988) L451
Duke, C.B., see Wang 192 (1987) 309
Duke, C.B., A. Paton, Y.R. Wang, K. Stiles and A. Kahn, Dynamical analysis of low-energy electron diffraction intensities from CdSe($10\bar{1}0$) 197 (1988) 11
Duryea, T.W. and H.B. Huntington, The driving force for electromigration of an atom adsorbed on simple metal surface 199 (1988) 261
Dwyer, D.J., see Cameron 198 (1988) 315
Dwyer, D.J., see Lu 199 (1988) L406
Dwyer, V.M. and J.A.D. Matthew, Background intensity determination in AES/XPS 193 (1988) 549

Easwarakhanthan, T., C. Michel and S. Ravelet, Numerical method for the ellipsometric determination of optical constants and thickness of thin films with microcomputers 197 (1988) 339
Eaves, L., see Taylor 196 (1988) 52
Eaves, L., see Payling 196 (1988) 404
Eckertová, L., Recent development in the appearance potential spectroscopy 200 (1988) 490
Eckertová, L., T. Jeníček and J. Pavluch, On the information depth of Auger electron appearance potential spectroscopy 200 (1988) 514

Edwards, D.S., see Peng 195 (1988) 103
Egawa, C., see Onishi 191 (1987) 479
Egawa, C., see Onishi 193 (1988) 33
Egawa, C. and Y. Iwasawa, Adsorption of CO and D_2 on Fe/Ru(001) surface 195 (1988) 43
Egawa, C. and Y. Iwasawa, Ethane hydrogenolysis on a Ru(1,1,10) surface 198 (1988) L329
Egawa, C., see Onishi 199 (1988) 54
Egdell, R.G., S. Eriksen and W.R. Flavell, A spectroscopic study of electron and ion beam reduction of SnO_2(110) 192 (1987) 265
Egdell, R.G., see Cotter 197 (1988) 208
Egeler, T., see Abstreiter 196 (1988) 613
Egelhoff, Jr., W.F., see Steigerwald 192 (1987) L887
Ehlers, D.H., A.P. Esser, A. Spitzer and H. Lüth, Coadsorption of CO with methanol, water and xenon on Pt(111): band suppression in vibrational spectroscopy 191 (1987) 466
Ehrhardt, J.J., see Fargues 194 (1988) 149
Ehrhardt, J.J., see Cassuto 194 (1988) 579
Ehrhardt, J.J., see Légaré 198 (1988) 69
Ehrlich, G., see Brass 191 (1987) L819
Ehrlich, G., see Lo 198 (1988) L380
Ehsasi, M. and K. Christmann, The interaction of hydrogen with a rhodium (110) surface 194 (1988) 172
Eichenauer, D. and J.P. Toennies, Pairwise additive potential models for the interaction of He atoms with the (001) surfaces of LiF, NaF, NaCl and LiCl 197 (1988) 267
Eisenstein, J.P., see Gammel 196 (1988) 417
Eisenstein, J.P., A.C. Gossard and V. Narayanamurti, Thermal conductance magneto-oscillations and electron–phonon coupling in GaAs/AlGaAs heterostructures 196 (1988) 445
Elango, M., A.E. Kiv and A.A. Malkin, Computer simulation of the radiation-induced Coulomb instability of XUV-irradiated alkali halide surfaces 194 (1988) 548
Eliasson, G., see Hawrylak 196 (1988) 482
Elmers, H.J. and U. Gradmann, Magnetometric analysis of the interaction of Ni(111) with oxygen 193 (1988) 94
Engel, T., see Conrad 198 (1988) 207
English, J.H., see Goldberg 196 (1988) 209
English, J.H., see Willett 196 (1988) 257
English, J.H., see Gammel 196 (1988) 417
Ensslin, K., D. Heitmann, H. Sigg and K. Ploog, Effects of the filling factor on the cyclotron resonance in gated AlGaAs/GaAs heterostructures 196 (1988) 263
Eric Yang, S.-R. and L.J. Sham, Theory of magneto-excitons in quantum wells 196 (1988) 533
Eriksen, S., see Egdell 192 (1987) 265
Ernst, N., Field enhanced adsorption 200 (1988) 275
Ertl, A., L. Röhrer and H. Wilsch, Simple model calculations on angular and velocity distributions of molecules after recombinative desorption 199 (1988) 537
Ertl, G., see Budde 192 (1987) 507
Ertl, G., see Ladas 197 (1988) 153
Ertl, G., see Ladas 198 (1988) 42
Ertl, G., see Hamza 199 (1988) 13

Es-Souni, M. and A. Mosser, Comments on 'Surface segregation of Si on Fe single crystal surfaces and interaction with carbon' 199 (1988) 439
Esaki, L., see Brum 196 (1988) 545
Esaki, L., see Smith, III 196 (1988) 687
Esser, A.P., see Ehlers 191 (1987) 466
Evans, J.W., D.K. Hoffman and H. Pak, Desorption from an immobile adlayer: exact one-dimensional kinetics 192 (1987) 475
Evans, J.W. and H. Pak, Desorption from non-equilibrium island-forming adlayers 199 (1988) 28

Fabre, F., see Rettner 192 (1987) 107
Falcone, G., see Sroubek 197 (1988) 528
Fan, W.C., J. Strozier and A. Ignatiev, Island formation of aluminum on the graphite (0001) surface: LEED and AES study 195 (1988) 226
Fang, F.F., see Smith, III 196 (1988) 287
Fang, F.F., T.P. Smith, III and S.L. Wright, Landau-level broadening and scattering time in modulation doped GaAs/AlGaAs heterostructures 196 (1988) 310
Fang, F.F., see Smith, III 196 (1988) 687
Fang, F.F., see Dabiran 196 (1988) 712
Fargues, D., J.J. Ehrhardt, M. Abon and J.C. Bertolini, Photoemission of adsorbed xenon on $Pt_xNi_{1-x}(111)$ single crystal alloy surfaces 194 (1988) 149
Farrell, J.E. and O.T. Valls, Phenomenological model for the growth of small metallic clusters on a substrate 199 (1988) 586
Faurie, J.P., see Woo 196 (1988) 665
Faurie, J.P., see Boebinger 196 (1988) 669
Feibelman, P.J., see Houston 192 (1987) 457
Feldman, L.C., see Zinke-Allmang 191 (1987) L749
Feldman, L.C., see Zinke-Allmang 197 (1988) 1
Feldman, L.C., see Zinke-Allmang 200 (1988) L427
Feng, D.L., see Tsong 199 (1988) 421
Feng, D.L., see Tsong 200 (1988) 220
Ferm, P.M., see Budde 192 (1987) 507
Ferm, P.M., see Hamza 199 (1988) 13
Ferreira da Silva, A., see De Andrada e Silva 196 (1988) 352
Ferrer, S., see Ocal 191 (1987) 147
Ferrer, S., see Michel 198 (1988) L365
Fink, Th., see Reimer 193 (1988) 259
Finster, J., see Ranke 192 (1987) 81
Fischer, D.A., see Zaera 194 (1988) 205
Flavell, W.R., see Egdell 192 (1987) 265
Fleischmann, E.D. and J.E. Adams, Dynamics of a Langmuir–Hinshelwood-type recombination reaction 193 (1988) 593
Flietner, H., Spectrum and nature of defects at interfaces of semiconductors with predominant homopolar bonding 200 (1988) 463
Floquet, N. and O. Bertrand, Onset of oxidation of the non-stoichiometric molybdenum oxide $Mo_{18}O_{52}(100)$ surface at low temperatures: a study by RHEED 198 (1988) 449
Flores, F., see Louis 197 (1988) L269
Flores, F., see Sánchez-Dehesa 200 (1988) 424
Foiles, S.M., Reconstruction of fcc (110) surfaces 191 (1987) L779

Foiles, S.M., Ordered surface phases of Au on Cu 191 (1987) 329
Folman, M., see Hoffman 193 (1988) 57
Folman, M., see Hoffman 193 (1988) 513
Foord, J.S., see Reynolds 191 (1987) 239
Forchel, A., see Tränkle 196 (1988) 584
Foster, T.J., see Payling 196 (1988) 404
Fowler, A.B., see Wainer 196 (1988) 134
Fowler, P.W. and P. Tole, Effects of coordination number on surface ions: an ab initio study of LiF and MgO 197 (1988) 457
Foxon, C.T., see Clark 196 (1988) 219
Foxon, C.T., see Singleton 196 (1988) 429
Foxon, C.T., see Brummell 196 (1988) 451
Frank, D.J., see Laux 196 (1988) 101
Frank, K.H., see Frick 193 (1988) 529
Frank, K.H., see Bornemann 195 (1988) 161
Franke, C., see Schneider 198 (1988) 277
Freund, H.-J., see Odörfer 198 (1988) 331
Frick, B., K. Jacobi, J.A. Wilder, H.J. Sagner and K.H. Frank, Inverse photoemission of Pd grown on Al(111) 193 (1988) 529
Friend, C.M., see Roberts 198 (1988) L321
Furneaux, J.E., see Syphers 196 (1988) 252
Furuya, K., see Yamamoto 194 (1988) 217

Gall, N.R., S.N. Mikhailov, E.V. Rut'kov and A.Ya. Tontegode, Carbon interaction with the rhenium surface 191 (1987) 185
Gammel, P.L., D.J. Bishop, J.P. Eisenstein, R.P. Hall, H.L. Stormer, A.C. Gossard and J.H. English, Quantum oscillations in a mechanical resonator containing a two-dimensional electron system 196 (1988) 417
Gammon, D., E. Glaser, B.V. Shanabrook and D. Musser, A spectroscopic study of screening effects in a quasi-two-dimensional system 196 (1988) 359
Gao, Q.J. and T.T. Tsong, Atomic structures of epitaxial overlayers of bcc Fe on fcc Rh surfaces 191 (1987) L787
Gao, Q.J., see Tsong 200 (1988) 220
Gao, Y. and T. Lopez-Rios, Raman scattering of pyridine coadsorbed with Al on quenched Ag films: evidence of Raman enhancement in the pores 198 (1988) 509
García, E.A., see De González 193 (1988) 305
Garcia, J.D., see Schafer 199 (1988) 132
García-Moliner, F., Theory of single and multiple interfaces 200 (1988) 444
Garrett, R.F., see Sagurton 199 (1988) L413
Garrison, B.J., see Brenner 198 (1988) 151
Gates, A.D. and J.L. Robins, Heterogeneous nucleation on cleavage steps. II. Additional theory 191 (1987) 492
Gates, A.D. and J.L. Robins, Heterogeneous nucleation on cleavage steps. III. Comparison of experiment and theory 191 (1987) 499
Gates, A.D. and J.L. Robins, Cluster mobility calculations for gold particles on (100) NaCl surfaces 194 (1988) 13
Gates, S.M., Adsorption kinetics of SiH_4, Si_2H_6 and Si_3H_8 on the Si(111)-(7 × 7) surface 195 (1988) 307
Gauch, M., see Quentel 193 (1988) 212
Geldart, D.J.W., see Watanabe 192 (1987) 344

Geller, R., see Delaunay 195 (1988) 455
Geller, R., see Delaunay 197 (1988) L273
Gellman, A., W.T. Tysoe, F. Zaera and G.A. Somorjai, A UPS and XPS investigation of the adsorption of sulfur on Mo(100): adsorption site and lateral interactions 191 (1987) 271
George, S.M., see Mak 191 (1987) 108
George, S.M., see Brand 194 (1988) 457
George, S.M., see Tro 197 (1988) L246
George, T.F., see Chung 194 (1988) 347
George, T.F., see Kim 195 (1988) 1
Gergely, G., Z. Bodó and P. Croce, Determination of the optical constants of metals and semiconductors by combining ellipsometry with electron spectroscopy microscopy and X-ray specular reflection analysis 200 (1988) 527
Germer, T.A., see Richter 195 (1988) L182
Geus, J.W., see Vink 194 (1988) 559
Ghazali, A., A. Gold and J. Serre, Impurity bands and band tails in accumulation and inversion layers 196 (1988) 346
Ghosal, A., see Babiker 196 (1988) 422
Giamello, E., see Zecchina 194 (1988) 531
Giannetta, R., see Wilen 196 (1988) 24
Gijzeman, O.L.J., see Vink 194 (1988) 559
Gilmer, G.H., see Grabow 194 (1988) 333
Girard, C. and C. Girardet, Substrate-mediated interactions between adsorbed atoms and molecules – a discrete solid theory 195 (1988) 173
Girardet, C., see Girard 195 (1988) 173
Giuliani, G.F., Plasmon mechanism for superconductivity in semiconducting heterostructures: the effect of acoustic plasmons 196 (1988) 476
Givargizov, E.I., see Zverkov 200 (1988) 540
Gładyszewski, L., Thermoemission of Eu^+ ions and its fluctuations 200 (1988) 386
Gland, J.L., see Zaera 194 (1988) 205
Glaser, E., see Gammon 196 (1988) 359
Glattli, D.C., E.Y. Andrei and F.I.B. Williams, Specific and latent heat of the 2D electron solid 196 (1988) 17
Glattli, D.C., see Andrei 196 (1988) 501
Gliński, M., see Chmielowski 196 (1988) 299
Gnaser, H. and I.D. Hutcheon, Preferential emission of lighter isotopes in the initial stage of sputtering 195 (1988) 499
Godowski, P., Surface composition of $Co_{79}Ru_{21}$ alloy contaminated with phosphorus measured by AES 200 (1988) 260
Gold, A., see Ghazali 196 (1988) 346
Goldberg, B.B., D. Heiman, A. Pinczuk, C.W. Tu, A.C. Gossard and J.H. English, Magneto-optics of the fractional quantum Hall effect 196 (1988) 209
Goldberg, B.B., D. Heiman, A. Pinczuk and A.C. Gossard, Inelastic light scattering of valence subband transitions in GaAs/GaAlAs multiple quantum wells 196 (1988) 619
Goldmann, A., see Drube 197 (1988) 317
Goldmann, A., see Netzer 199 (1988) 87
Gonçalves da Silva, C.E.T., see Gummich 196 (1988) 643
Goodkind, J.M., G.F. Saville, A.E. Ruckenstein and P.M. Platzman, Escape rates of electrons from the surface of liquid helium 196 (1988) 38
Goodman, D.W., see Peden 194 (1988) 92

Göpel, W., see Schleich 191 (1987) 367
Göpel, W., see Hornstein 192 (1987) 563
Gornik, E., W. Seidenbusch, R. Christanell, R. Lassnig and C.R. Pidgeon, Evidence for impurity states close to the 2D gas in GaAs/GaAlAs heterostructures 196 (1988) 339
Gornik, E., see Lassnig 196 (1988) 367
Gorte, R.J., see Altman 195 (1988) 392
Gossard, A.C., see Goldberg 196 (1988) 209
Gossard, A.C., see Willett 196 (1988) 257
Gossard, A.C., see Gammel 196 (1988) 417
Gossard, A.C., see Eisenstein 196 (1988) 445
Gossard, A.C., see Goldberg 196 (1988) 619
Govorov, A.O., see Chaplik 196 (1988) 719
Grabow, M.H. and G.H. Gilmer, Thin film growth modes, wetting and cluster nucleation 194 (1988) 333
Grabow, M.H., see Zinke-Allmang 200 (1988) L427
Gradmann, U., see Elmers 193 (1988) 94
Greene, J.E., see Salaneck 198 (1988) 461
Greene, R.L., see Borroff 196 (1988) 626
Greenlief, C.M., P.L. Radloff, X.-L. Zhou and J.M. White, The formation and decomposition kinetics of ethylidyne on Ru(0001) 191 (1987) 93
Griffiths, K., see He 198 (1988) 413
Grimes, R.T., see Rikken 196 (1988) 303
Grinstein, G., see Awschalom 196 (1988) 649
Grossman, E., A. Bensaoula and A. Ignatiev, An XPS study of XeF_2 dry etching of tungsten silicide 197 (1988) 99
Grunze, M., see Dowben 193 (1988) 336
Gruzalski, G.R., see Mundenar 198 (1988) L309
Guillot, C., see Légaré 198 (1988) 69
Guldner, Y., see Boebinger 196 (1988) 669
Gullikson, E.M., A.P. Mills, Jr. and J.M. Phillips, Electron and positron work functions of cobalt silicide 195 (1988) L150
Gummich, U., G.G. Cabrera and C.E.T. Gonçalves da Silva, Ultrathin magnetic layers in semiconductor superlattices 196 (1988) 643
Gundlach, A., see Pooke 196 (1988) 59
Guo, X., see Siddiqui 191 (1987) L813
Guo, X., see Siddiqui 193 (1988) L17
Gutleben, H. and E. Bechtold, Desorption of sulfur from Pt(100) 191 (1987) 157
Guvenc, Z.B., N.L. Liu and B.H. Choi, Coherent excitation of fast hydrogenic ions by a crystal surface 192 (1987) 529
Guyot-Sionnest, P., see Superfine 200 (1988) L445

Haase, G. and M. Asscher, Adsorption and dissociation of N_2 on rhenium single crystal surfaces 191 (1987) 75
Hagans, P., see Siddiqui 193 (1988) L17
Hajcsar, E.E., P.R. Underhill, W.W. Smeltzer and P.T. Dawson, A determination of the temperature dependence of segregation for a 56 a/o Ni–Co alloy on (111) and (210) faces using AES 191 (1987) 249
Halicioglu, T., Fluxional nature of gas-phase clusters 197 (1988) L233
Hall, B.M., see Lehwald 192 (1987) 131

Hall, R.P., see Gammel 196 (1988) 417
Hamann, D.R., see Houston 192 (1987) 457
Hammer, L., see Heinz 191 (1987) 174
Hamza, A.V., see Budde 192 (1987) 507
Hamza, A.V., P.M. Ferm, F. Budde and G. Ertl, The dynamics of NO scattering from NO- and CO-covered Ni(100) 199 (1988) 13
Han Rushan, see Zheng Qing-qi 195 (1988) L173
Hansen, J.C., see Benson 193 (1988) L37
Hansen, W., see Kotthaus 196 (1988) 600
Harbison, J.P., see Roukes 196 (1988) 79
Hardy, G.A., see Kent 196 (1988) 410
Harrington, D.A. and P.R. Norton, Activated adsorption of deuterium on Ni(110): evidence for a high temperature desorption state 195 (1988) L135
Harrington, D.A., see He 198 (1988) 413
Harris, J., T. Rahman and K. Yang, A mechanism for vibrational excitation in associative desorption 198 (1988) L312
Harris, J.J., see Clark 196 (1988) 219
Harris, J.J., see Brummell 196 (1988) 451
Harris, S., see Zonnevylle 199 (1988) 320
Harris, T.D., see Sauer 196 (1988) 388
Hasebe, Y., see Matsunami 192 (1987) 27
Haug, R.J., K. von Klitzing, R.J. Nicholas, J.C. Maan and G. Weimann, The influence of a tilted magnetic field on the fractional quantum Hall effect and the exchange enhancement of the spin splitting 196 (1988) 242
Hawker, P., see Kent 196 (1988) 410
Hawrylak, P., G. Eliasson and J.J. Quinn, Electron self-energy, effective mass and lifetime in a layered electron gas 196 (1988) 482
Hayden, B.E., A.W. Robinson and P.M. Tucker, IR evidence for the molecular reorientation of linear CO on Pt(110)-(1 × 2) 192 (1987) 163
Haynes, S.R., see Clark 196 (1988) 219
He, J.-W. and P.R. Norton, Fractional-order desorption of D_2 from a Pd(110) surface 195 (1988) L199
He, J.-W., D.A. Harrington, K. Griffiths and P.R. Norton, The interaction of hydrogen with a Pd(100) surface 198 (1988) 413
Hegarty, J. and M.D. Sturge, Exciton localisation in quantum well structures 196 (1988) 555
Hegde, M.S., Reply to "Comment on 'XPS, UPS and AES study of surface segregation and oxidation of Ni–Ru alloy' " by W. Unger 197 (1988) L294
Heiblum, M., see Andrei 196 (1988) 501
Heiland, W., see Klekamp 200 (1988) L465
Heiman, D., see Goldberg 196 (1988) 209
Heiman, D., see Zucker 196 (1988) 563
Heiman, D., see Goldberg 196 (1988) 619
Hein, G., see Bliek 196 (1988) 156
Heine, V. and J.J.A. Shaw, The microscopic origin of incommensurate phases on (001) surfaces of Mo and W 193 (1988) 153
Heine, V. and J.J.A. Shaw, Split solitons in the incommensurate and streaked phases of W(001)/H surfaces 193 (1988) 170
Heinz, K., A. Barthel, L. Hammer and K. Müller, Kinetics of the irreversible transition Pt(110)1 × 1 → 1 × 2 as observed by LEED 191 (1987) 174
Heinz, K., see Pendry 193 (1988) L1
Heitmann, D., see Ensslin 196 (1988) 263

Hemmen, R., see Somers 198 (1988) 400
Henderson, M.A., see Mitchell 191 (1987) 425
Henderson, T., see Oberli 196 (1988) 611
Hendrickx, H.A.C.M. and V. Ponec, Effects of alloying and coadsorption: an IR study 192 (1987) 234
Henini, M., see Payling 196 (1988) 404
Henrich, V.E., see Lad 193 (1988) 81
Henrich, V.E., see Lad 200 (1988) L473
Hensley, D.A., see Venus 199 (1988) 391
Henzler, M., see Altsinger 200 (1988) 235
Heskett, D., A. Baddorf and E.W. Plummer, Nitrogen-induced reconstruction of Cu(110): formation of a surface nitride 195 (1988) 94
Heskett, D., L.E. Urbach, K.J. Song, E.W. Plummer and H.L. Dai, Oxygen and pyridine on Ag(110) studied by second harmonic generation: coexistence of two phases within monolayer pyridine coverage 197 (1988) 225
Heskett, D., The interaction range in alkali metal-promoted systems 199 (1988) 67
Hester, J.R., see Benesh 194 (1988) 567
Heuring, W., see Waag 196 (1988) 328
Higgins, R.J., see Martin 196 (1988) 323
Hilaire, L., see Légaré 198 (1988) 69
Hill, G., see Rikken 196 (1988) 303
Hinkel, V., L. Sorba and K. Horn, Surface core level shifts of clean and hydrogen-covered InSb(110) 194 (1988) 597
Hipólito, O., see Degani 196 (1988) 459
Hipólito, O., see Marques 196 (1988) 659
Hirai, M., see Kusaka 199 (1988) 99
Hirai, M., see Iwami 199 (1988) 467
Hirakawa, K., see Wakabayashi 196 (1988) 236
Hirakawa, K., T. Noda and H. Sakaki, Interface roughness in AlAs/GaAs quantum wells characterized by the mobility of two-dimensional electrons 196 (1988) 365
Hirayama, H., T. Tatsumi and N. Aizaki, Reflection high energy electron diffraction and Auger electron spectroscopic study on B/Si(111) surfaces 193 (1988) L47
Hirsch, W., see Au 197 (1988) 391
Hirsch, W., see Au 199 (1988) 507
Hirschwald, W., see Au 197 (1988) 391
Hirschwald, W., see Au 199 (1988) 507
Hitchen, G. and S. Thurgate, Azimuthal angular dependence of LEED fine structure from Cu(001) 197 (1988) 24
Ho, W., see Richter 195 (1988) L182
Ho, W., see Ying 198 (1988) 473
Hochella, Jr., M.F. and A.H. Carim, A reassessment of electron escape depths in silicon and thermally grown silicon dioxide thin films 197 (1988) L260
Hock, M., see Bauhofer 191 (1987) 395
Hoff, H.A., see Lam 193 (1988) 353
Hoffman, A., T. Maniv and M. Folman, A study of O_2 adsorption on α-Cu–Al(100) surfaces of different Al concentrations by means of AES and XPS 193 (1988) 57
Hoffman, A., T. Maniv and M. Folman, EELS studies of adsorption of O_2 and NO on Al(100) 193 (1988) 513
Hoffman, D.K., see Evans 192 (1987) 475
Hoffmann, F.M., see Paul 194 (1988) 419

Hoffmann, R., see Jansen 197 (1988) 474
Hoffmann, R., see Zonnevylle 199 (1988) 320
Hoflund, G.B., see Asbury 199 (1988) 552
Hofmann, P. and D. Menzel, Angular-resolved photoemission of formate and methoxy on Cu(110): orientation and orbital assignment using dipole selection rules 191 (1987) 353
Holland, B.W., see Wander 199 (1988) L403
Holloway, P.H., see Jeng 193 (1988) L63
Holmes, D.J., D.R. Batchelor and D.A. King, Surface structure determination by SEXAFS: the reliability of bond lengths and coordination numbers from multi-shell analyses 199 (1988) 476
Horn, K., see Hinkel 194 (1988) 597
Horn, K., see Prince 200 (1988) L451
Horn, M., see Altsinger 200 (1988) 235
Horn, T.C.M., see Van den Hoek 198 (1988) L335
Hornstein, R., D. Schmeisser, W. Göpel and M. Kunst, Growth of ordered Al_2O_3-(1×1) passivation layers on InP(100) 192 (1987) 563
Hourani, M., see Palaikis 199 (1988) 183
Houston, J.E., C.H.F. Peden, P.J. Feibelman and D.R. Hamann, Analysis of CO–Cu bonding by observation of interface states on Cu/Ru bimetallic surfaces 192 (1987) 457
Houston, J.E., see Peden 194 (1988) 92
Howard, R.E., see Chang 196 (1988) 46
Howard, R.E., see Timp 196 (1988) 68
Hrbek, J., T.K. Sham and M.-L. Shek, Electronic structure of Mn overlayers on the Ru(001) surface 191 (1987) L772
Hu Yongjun and Lin Zhangda, Electronic structure and the interactions of Ni and Fe on the ion sputtered basal faces of MoS_2 single crystal 192 (1987) 283
Hübner, H.J., see Abstreiter 196 (1988) 613
Hudson, J.B., see Kurz 195 (1988) 15
Hudson, J.B., see Kurz 195 (1988) 31
Hughes, H.P., see Soole 197 (1988) 250
Hughes, O.H., see Payling 196 (1988) 404
Hunt, J.H., see Superfine 200 (1988) L445
Huntington, H.B., see Duryea 199 (1988) 261
Hutcheon, I.D., see Gnaser 195 (1988) 499
Huynh, V.T., see Black 192 (1987) 541
Huzimura, R., H. Kurisu and T. Okuda, Interaction of CO with surface defects of MgO: a high vacuum ESR study 197 (1988) 444
Hwang, R.Q., E.D. Williams and R.L. Park, Thermal disordering of the $(\sqrt{3} \times \sqrt{3})R30°$ structure of Al on Si(111) 193 (1988) L53

Ibach, H., see Lehwald 192 (1987) 131
Ichihashi, T., see Iijima 192 (1987) L872
Ichikawa, S., see Wadayama 198 (1988) L359
Ichimiya, A. and S. Mizuno, RHEED intensity analysis of Si(111)7×7-H surface 191 (1987) L765
Ichimiya, A., RHEED intensity analysis of Si(111)7×7 at one-beam condition 192 (1987) L893
Ichinokawa, T., see Miura 191 (1987) 259

Ichinokawa, T., see Kato 194 (1988) L87
Ide, T., see Miura 191 (1987) 259
Ide, T., see Kato 194 (1988) L87
Ignatiev, A., see Fan 195 (1988) 226
Ignatiev, A., see Grossman 197 (1988) 99
Iijima, S. and T. Ichihashi, Grain boundary migration in small gold particles 192 (1987) L872
Ikawa, E., see Aoto 199 (1988) 408
Imbihl, R., see Ladas 197 (1988) 153
Imbihl, R., see Ladas 198 (1988) 42
Inaoka, T., Dielectric response of a degenerate polar semiconductor surface 198 (1988) 491
Inglesfield, J.E. and G.A. Benesh, Bulk and surface states on Al(001) 200 (1988) 135
Isaacs, E., see Zucker 196 (1988) 563
Ishii, A., Theory of Auger neutralization of He^+ ions on NaCl surfaces due to the local electronic structures 192 (1987) 172
Ishikawa, T., see Takahashi 191 (1987) L825
Ishimaru, N., H. Ueba and C. Tatsuyama, Initial stage of heteroepitaxy of Ge on Si(111)-7 × 7 and (100)-2 × 1 surfaces studied by low-energy electron-loss spectroscopy (LEELS) 193 (1988) 193
Ishizawa, Y., see Wuttig 192 (1987) 573
Ishizawa, Y., see Wuttig 193 (1988) 180
Ishizawa, Y., see Souda 194 (1988) L119
Ishizawa, Y., see Souda 199 (1988) 154
Itoh, N., see Matsunami 192 (1987) 27
Iwami, M., T. Terada, H. Tochihara, M. Kubota and Y. Murata, Alloyed interface formation in the Au–Si(111)2 × 1 system studied by photoemission spectroscopy 194 (1988) 115
Iwami, M., see Kusaka 199 (1988) 99
Iwami, M., M. Kusaka, M. Hirai, H. Nakamura, K. Shibahara and H. Matsunami, A new application of soft X-ray spectroscopy to a non-destructive analysis of a film/substrate contact system: carbonized-layer (ultra-thin-film)/Si(100) 199 (1988) 467
Iwanov, D., Surface morphology and growth kinetics of zinc single crystals as influenced by vapour diffusion 200 (1988) 252
Iwasa, Y., see Lee 196 (1988) 534
Iwasaki, N., Y. Sasaki and Y. Nishina, Ag electrode reactions in NaOH solution studied by in-situ Raman spectroscopy 198 (1988) 524
Iwasaki, N., see Sasaki 198 (1988) 541
Iwasawa, Y., see Onishi 191 (1987) 479
Iwasawa, Y., see Onishi 193 (1988) 33
Iwasawa, Y., see Egawa 195 (1988) 43
Iwasawa, Y., see Egawa 198 (1988) L329
Iwasawa, Y., see Onishi 199 (1988) 54

Jackson, S.A., Spin fluctuations and magnetic polaron formation in dilute magnetic semiconductor quantum well structures 196 (1988) 654
Jacob, W., see Benndorf 191 (1987) 455
Jacobi, K., Work-function changes and photoemission final-state relaxation of Ne, Ar, Kr, Xe, H_2 and N_2 on gallium 192 (1987) 499
Jacobi, K., see Frick 193 (1988) 529
Jacobi, K., see Astaldi 200 (1988) 15

Jaeger, N., see Lamber 197 (1988) 402
Jaegermann, W., see Ohuchi 194 (1988) L69
Jain, J.K. and S. Das Sarma, Elementary collective excitations in multi-layered two-dimensional systems 196 (1988) 466
Jansen, S.A. and R. Hoffmann, Surface chemistry of transition metal carbides: a theoretical analysis 197 (1988) 474
Jarosik, N.C., see Cheng 196 (1988) 268
Jaskółka, S., see Radoń 200 (1988) 199
Jeng, S.-P., P.H. Holloway and C.D. Batich, Equilibrium surface segregation for Ni–15%Cr(110) 193 (1988) L63
Jeníček, T., see Eckertová 200 (1988) 514
Jennings, G., see Clarke 192 (1987) L843
Jennings, P.J., A new method for studying the interaction of positrons with metal surfaces 198 (1988) 180
Jiang, H.-W., M.A. Stan and A.J. Dahm, Phase diagrams and melting in a screened two-dimensional system: electrons on helium films 196 (1988) 1
Jiang, P., see Jona 192 (1987) 414
Johansson, L.I., see Lindberg 192 (1987) 353
Johansson, L.I., see Lindberg 192 (1987) 366
Johansson, L.I., see Lindberg 194 (1988) 199
Johnson, A.D., see Beckerle 195 (1988) 77
Johnson, R.E., see Chrisey 195 (1988) 594
Johnson, W.C., see Barnard 197 (1988) 363
Jona, F., Results of an international LEED intensity project. I. Reproducibility of experimental spectra 192 (1987) 398
Jona, F., P. Jiang and P.M. Marcus, Results of an international LEED intensity project. II. Evaluation of structural parameters 192 (1987) 414
Jones, R.G., see Woodruff 195 (1988) 237
Jones, W.E., see Tan 195 (1988) L193
Jones, W.E., see Allen 199 (1988) 309
Jönsson, L., see Westerlund 199 (1988) 109
Jørgensen, B., see Morgen 197 (1988) 347
Jorke, H., Surface segregation of Sb on Si(100) during molecular beam epitaxy growth 193 (1988) 569
Joshi, N.V., Laser-assisted growth of thin films of $CuAlSe_2$ 194 (1988) L105
Journaux, Y., see Clark 196 (1988) 219
Joyce, S., J.G. Langan and J.I. Steinfeld, Reactions of XeF_2 with thermally grown SiO_2 195 (1988) 270
Jucknischke, D., see Bliek 196 (1988) 156
Judd, R.W., M.A. Reichelt and R.M. Lambert, Carbon monoxide chemisorption on Pt-dosed W(100): Pt strained overlayers, Pt crystallites and W/Pt surface alloys 198 (1988) 26
Jupille, J., see Légaré 198 (1988) 69
Jurczyszyn, L., see Stęślicka 200 (1988) 209

Kahn, A., see Duke 197 (1988) 11
Kaindl, G., see Mandel 197 (1988) 81
Kajita, K., Nonlinear transport phenomena of crystallized electrons formed on liquid helium film 196 (1988) 29
Kalla, R. and J. Pollmann, Bond-angle relaxation and electronic structure of Si and Ge overlayers on (110) surfaces of III-V semiconductors 200 (1988) 80

Kane, B.E., D.C. Tsui and G. Weimann, Low frequency noise in the integral quantum Hall effect 196 (1988) 183
Kao, C.-T., see Mate 197 (1988) 183
Kao, C.T., see Superfine 200 (1988) L445
Kaplan, S.B., Structure in the rectifying behavior of mesoscopic Si MOSFETs 196 (1988) 93
Kara, A. and A.E. DePristo, Dynamics of dissociative chemisorption: N_2/W(110) 193 (1988) 437
Karimi, M. and G. Vidali, Long range interaction between hydrogen and rare gas atoms with surfaces of III–V semiconductors 191 (1987) L799
Karolewski, M.A. and R.G. Cavell, An ion-induced crystal current study of clean, sulphided and oxidized Cu(100) 198 (1988) 118
Kasai, H., see Nakanishi 197 (1988) 515
Kaski, K., see Lampinen 200 (1988) 101
Kassim, H.A., see Yousif 197 (1988) 509
Kato, K., see Miura 191 (1987) 259
Kato, K., T. Ide, S. Miura, A. Tamura and T. Ichinokawa, Si(100)$2 \times n$ structures induced by Ni contamination 194 (1988) L87
Kavanagh, K.L., see Marée 191 (1987) 305
Kawai, M., see Kawai 195 (1988) 535
Kawai, R. and M. Kawai, Theory of the low-energy surface Okorokov excitation for studying excited states of atoms in collision with surfaces 195 (1988) 535
Kawai, S., see Nakamatsu 194 (1988) 265
Kawaji, S., see Wakabayashi 196 (1988) 236
Kawaji, S. and N. Nagashima, Effects of higher subband tails on inelastic scattering time in Si(001) inversion layers 196 (1988) 316
Kay, B.D. and M.E. Coltrin, Quantum tunneling and the activated chemisorption of methane on tungsten. Comment on 'Activated chemisorption of methane and tunneling' by T.-C. Lo and G. Ehrlich 198 (1988) L375
Kelley, R.D., see Nicol 197 (1988) 67
Kellogg, G.L., The mobility and structure of nickel atoms on the (100) plane of tungsten 192 (1987) L879
Kelly, R. and R.W. Dreyfus, On the effect of Knudsen-layer formation on studies of vaporization, sputtering, and desorption 198 (1988) 263
Kemmann, H., F. Müller and H. Neddermeyer, AES, LEED and TDS studies of Cu on Si(111)7×7 and Si(100)2×1 192 (1987) 11
Kent, A.J., V.W. Rampton, M.I. Newton, P.J.A. Carter, G.A. Hardy, P. Hawker, P.A. Russell and L.J. Challis, Magnetic field dependence of the phonon scattering and phonon emission by a 2DEG in a Si MOSFET 196 (1988) 410
Kern, K., R. David, P. Zeppenfeld and G. Comsa, Registry effects in the thermodynamic quantities of Xe adsorption on Pt(111) 195 (1988) 353
Kesmodel, L.L., see Venus 199 (1988) 391
Khalid, S.M., see Toreis 197 (1988) 415
Khanra, B.C., see Modak 199 (1988) 361
Kikuchi, T., see Yamamoto 194 (1988) 217
Kikuta, S., see Takahashi 191 (1987) L825
Kim, H.-Y. and M.W. Cole, Substrate mediation of the interaction between adatoms on graphite: discrete lattice model 194 (1988) 257
Kim, H.-Y., M.W. Cole, F. Toigo and D. Nicholson, Dispersion interaction between adsorbed linear molecules 198 (1988) 555
Kim, L.S., see Smith, III 196 (1988) 287

Kim, Y.S., P.T. Leung and T.F. George, Classical decay rates for molecules in the presence of a spherical surface: a complete treatment 195 (1988) 1
Kimman, J., see Rettner 192 (1987) 107
King, D.A., see Bowker 192 (1987) 95
King, D.A., see Holmes 199 (1988) 476
Kinkus, T.J., see Wang 197 (1988) 327
Kishi, K., Reaction of O_2 and $C_6H_5NO_2$ with Fe/Ni(100) surface studied by XPS 192 (1987) 210
Kisiel, A., see Czarnecka-Such 193 (1988) 221
Kisiel, W., B. Stankiewicz and M. Stęślicka, Interface electronic structure of alkali halide contacts 200 (1988) 457
Kiskinova, M. and M. Tikhov, Adsorption of CO on Ru(10$\bar{1}$0) doped with different amounts of K and Cs 194 (1988) 379
Kiss, J., see Solymosi 192 (1987) 47
Kittaka, S., see Morishige 192 (1987) 197
Kiv, A.E., see Elango 194 (1988) 548
Klein, M.V., see Oberli 196 (1988) 611
Kleinherenbrink, P.M., see Sasse 199 (1988) 243
Kleint, Ch., Electron emission noise 200 (1988) 472
Klekamp, A., H. Donnerberg, W. Heiland and K.J. Snowdon, Electron bombardment induced desorption of oxygen from $LiNbO_3$ 200 (1988) L465
Kleyn, A.W., see Van den Hoek 198 (1988) L335
Knibb, M.G. and P.A. Maksym, The effect of reconstruction on RHEED intensities for the GaAs(001)2 × 4 surface 195 (1988) 475
Knoll, W., see Rothenhäusler 191 (1987) 585
Knorr, K., see Koort 192 (1987) 187
Koch, E.E., see Yannoulis 192 (1987) 299
Koch, F., see Zrenner 196 (1988) 671
Koch, F., see Perry 196 (1988) 677
Kochowski, S., see Adamowicz 200 (1988) 172
Koehler, B.G., see Mak 191 (1987) 108
Kołaczkiewicz, J., Measurement of work function changes as a research method for structural phase transitions in adsorbate islands: Cu/Mo(011) 200 (1988) 335
Kolb, D.M., see Schneider 193 (1988) 579
Kolb, D.M., see Schneider 198 (1988) 277
Kolchenko, N.N., see Dalidchik 200 (1988) 536
Kolodney, E., see Danon 193 (1988) 132
Koma, A., see Saiki 192 (1987) 1
Kong, A.C.F., see Seebauer 193 (1988) 417
Kong, M.Y., see Chmielowski 196 (1988) 299
Koort, H.J., K. Knorr and H. Wiechert, Ellipsometric study of the physisorption of benzene on graphite 192 (1987) 187
Kordesch, M.E., see Somers 198 (1988) 400
Korneta, W. and Z. Pytel, The effect of surfaces on the domain structure 192 (1987) L899
Korneta, W. and Z. Pytel, The local autocorrelation time near the surface of a system with uniaxial anisotropy in a transverse field 200 (1988) 368
Korneta, W. and Z. Pytel, Random walk near the surface 200 (1988) 374
Korobtsov, V.V., V.G. Lifshits and A.V. Zotov, Formation of Si(111)$\sqrt{3}$ × $\sqrt{3}$-B and Si epitaxy on Si(111)$\sqrt{3}$ × $\sqrt{3}$-B: LEED–AES study 195 (1988) 466
Kose, V., see Bliek 196 (1988) 156

Kotthaus, J.P., W. Hansen, H. Pohlmann, M. Wassermeier and K. Ploog, Intersubband resonances in quasi-one-dimensional channels 196 (1988) 600
Kovács, I., see Solymosi 192 (1987) 47
Kozlowski, M.R., P.S. Tyler, W.H. Smyrl and R.T. Atanasoski, Photoelectrochemical microscopy of oxide films on metals: Ti/TiO_2 interface 194 (1988) 505
Krakow, W., see Castaño 191 (1987) 45
Kramer, B., Y. Ono and T. Ohtsuki, On the fractal dimensionality of the extended states in disordered two-dimensional systems in a strong magnetic field 196 (1988) 127
Kramer, G.M. and R.F. Wallis, Theory of electronic impurity states associated with primed subbands of inversion layers in silicon MOSFETs 196 (1988) 355
Kreuzer, H.J., see Watanabe 192 (1987) 344
Kreuzer, H.J. and S.H. Payne, Nonequilibrium thermodynamics of a two-phase adsorbate 198 (1988) 235
Kreuzer, H.J. and S.H. Payne, Desorption from a two-phase adsorbate: zero or fractional order 200 (1988) L433
Kubota, M., see Iwami 194 (1988) 115
Kuchar, F., see Meisels 196 (1988) 177
Kuhlenbeck, H., see Odörfer 198 (1988) 331
Kuhr, H.J., see Ranke 192 (1987) 81
Kukushkin, I.V. and V.B. Timofeev, Optical measurements of Landau level density of states and Coulomb gaps under FQHE in Si MOSFET 196 (1988) 196
Kundu, S., see Basu 196 (1988) 700
Kunst, M., see Hornstein 192 (1987) 563
Kuntz, P.J. and K. Lacmann, Surface-induced luminescence of alkali atoms 192 (1987) L859
Kunze, U., Tunneling study of mixed electric and magnetic subbands on Si(001) surfaces 196 (1988) 374
Küppers, J., see Bauhofer 191 (1987) 395
Küppers, J., see Reimer 193 (1988) 259
Kurisu, H., see Huzimura 197 (1988) 444
Kurogi, Y., see Aoto 199 (1988) 408
Kurz, E.A. and J.B. Hudson, The adsorption of H_2 and D_2 on Fe(110). I. Helium scattering as a probe of adsorption 195 (1988) 15
Kurz, E.A. and J.B. Hudson, The adsorption of H_2 and D_2 on Fe(110). II. Angle resolved thermal desorption spectroscopy and kinetic mechanism 195 (1988) 31
Kusaka, M., M. Hirai and M. Iwami, AES and LEELS study of room temperature deposition of Ag on a CdS (air cleaved) substrate 199 (1988) 99
Kusaka, M., see Iwami 199 (1988) 467
Kusuma, T.S. and A.L. Companion, An EHMO study of the interaction of CO molecules adsorbed on a Ni(111) surface with neighboring CO molecules, H atoms and O atoms 195 (1988) 59
Kuwabara, R., H. Adachi and T. Morimoto, Calculation of the electronic structure of the polar $ZnO(000\bar{1})$ surface by the DV-Xα cluster method 193 (1988) 271
Kuźmiński, S. and A.T. Szaynok, Surface photovoltage investigations of $Cd_{1-x}Mn_xTe$ for $x = 0.01$ and 0.10 200 (1988) 192
Kwong, N.-H., see Schafer 199 (1988) 132

Lach, E., see Tränkle 196 (1988) 584
Lacharme, J.P., see M'hamedi 199 (1988) 121
Lacharme, J.P., see Orlowski 200 (1988) L460

Lacmann, K., see Kuntz 192 (1987) L859
Lad, R.J. and V.E. Henrich, Structure of α-Fe_2O_3 single crystal surfaces following Ar^+ ion bombardment and annealing in O_2 193 (1988) 81
Lad, R.J. and V.E. Henrich, Reply to "Comment on 'Structure of α-Fe_2O_3 single crystal surfaces following Ar^+ ion bombardment and annealing in O_2' " by E. Paparazzo 200 (1988) L473
Ladas, S., R. Imbihl and G. Ertl, Microfacetting of a Pt(110) surface during catalytic CO oxidation 197 (1988) 153
Ladas, S., R. Imbihl and G. Ertl, Kinetic oscillations and facetting during the catalytic CO oxidation on Pt(110) 198 (1988) 42
Lagally, M.G., see Tringides 195 (1988) L159
Lagos, M., J. Mahanty and V. Slusarenko, Subsurface traps for impurities 191 (1987) L806
Lähdeniemi, M., see Yannoulis 192 (1987) 299
Lahee, A.M., J.P. Toennies and Ch. Wöll, A helium atom scattering study of force constant changes on the Pd(110) surface 191 (1987) 529
Łajtar, L., A. Patrykiejew and S. Sokołowski, The influence of atomic impurities on the orientational transitions in localized monolayer films of diatomic molecules adsorbed on crystalline surfaces 200 (1988) 287
Łajtar, L., A. Patrykiejew and S. Sokołowski, Evaluation of the phase diagram for nitrogen adsorbed on graphite by means of the density functional theory 200 (1988) 298
Lakerveld, D.G., see Sasse 195 (1988) L167
Lam, N.Q. and H.A. Hoff, Surface and subsurface composition changes in Ni–Si alloys during elevated-temperature sputtering 193 (1988) 353
Lamari, S. and L.J. Sham, Theory of magneto-optical properties in narrow-gap semiconductor quantum wells 196 (1988) 551
Lamber, R., N. Jaeger and G. Schulz-Ekloff, Electron microscopy study of the interaction of Ni, Pd and Pt with carbon. I. Nickel catalyzed graphitization of amorphous carbon 197 (1988) 402
Lambert, B., see Deveaud 196 (1988) 386
Lambert, R.M., see Broomfield 195 (1988) L155
Lambert, R.M., see Judd 198 (1988) 26
Lambert, R.M., see Tysoe 199 (1988) 1
Lamble, G., see Bowker 192 (1987) 95
Lampinen, J., R.M. Nieminen and K. Kaski, Molecular dynamics simulation of the structure and melting transition of the Si(001) surface 200 (1988) 101
Landheer, D., see D'Iorio 196 (1988) 165
Landskron, H., see Pendry 193 (1988) L1
Landwehr, G., see Waag 196 (1988) 328
Langan, J.G., see Joyce 195 (1988) 270
Lanteri, H., see Bindi 197 (1988) 295
Lantto, V. and P. Romppainen, Electrical studies on the reactions of CO with different oxygen species on SnO_2 surfaces 192 (1987) 243
Lanzillotto, A.-M., see Dresser 191 (1987) 1
Lanzillotto, A.-M., M.J. Dresser, M.D. Alvey and J.T. Yates, Jr., The epitaxial formation of adsorbed multilayers as studied by ESDIAD: NH_3 adsorption on top of chemisorbed CO on nickel crystal surfaces 191 (1987) 15
Lassnig, R., see Gornik 196 (1988) 339
Lassnig, R., J. Smoliner, W. Boxleitner and E. Gornik, Tunneling study of GaAs/GaAlAs heterostructures 196 (1988) 367
Lauter, H.J., see Monkenbusch 191 (1987) 547

Laux, S.E., D.J. Frank and F. Stern, Quasi-one-dimensional electron states in a split-gate GaAs/AlGaAs heterostructure 196 (1988) 101
Leadbeater, M.L., see Taylor 196 (1988) 52
Leadley, D.R., see Brummell 196 (1988) 451
Leal, C.E., see De Andrada e Silva 196 (1988) 352
Lecante, J., see Légaré 198 (1988) 69
Lee, J.S., N. Miura and Y. Iwasa, Magneto-optics of n- and p-type modulation-doped GaAs/$Al_xGa_{1-x}As$ quantum wells 196 (1988) 534
Lee, K.C., see Wang 197 (1988) 239
Lee, K.S., see Perry 196 (1988) 677
Lee, P.A., Conductance fluctuations in small devices 196 (1988) 43
Lee, S.-L. and R.R. Lucchese, Simulation of heavy ion induced desorption of biomolecules from surfaces using the popcorn model 193 (1988) 486
Légaré, P., G. Lindauer, L. Hilaire, G. Maire, J.-J. Ehrhardt, J. Jupille, A. Cassuto, C. Guillot and J. Lecante, On the interaction of O_2 with Pt(111) and Pt(557) surfaces: core-level shift study using conventional and synchrotron radiation sources 198 (1988) 69
Lehwald, S., F. Wolf, H. Ibach, B.M. Hall and D.L. Mills, Surface vibrations on Ni(110): the role of surface stress 192 (1987) 131
Lei, X.L., see Yang 196 (1988) 487
Leo, J., see Movaghar 196 (1988) 381
Leone, S.R., see Carleton 199 (1988) 447
Leung, P.T., see Kim 195 (1988) 1
Levin, M.E., K.J. Williams, M. Salmeron, A.T. Bell and G.A. Somorjai, Alumina and titania overlayers on rhodium: a comparison of the chemisorption and catalytic properties 195 (1988) 341
Levin, M.E., M. Salmeron, A.T. Bell and G.A. Somorjai, The characterization of Ti and Al oxide overlayers on rhodium and gold by XPS 195 (1988) 429
Li, H. and B.P. Tonner, A LEED study of the structure of epitaxial Pb/Ge(111) monolayers and ultra-thin films 193 (1988) 10
Li, R.-S. and Y.-Z. Sun, Quantitative Auger electron spectroscopy analysis of the Au–Cu alloys 191 (1987) 339
Li, R.-S., Temperature dependence of the surface composition changes under Ar ion bombardment of an $Au_{0.5}Cu_{0.5}$ alloy between 30 °C and 700 °C 193 (1988) 373
Li, R.-S. and Y.-Z. Sun, Quantitative Auger electron spectroscopy analysis of the Au–Cu alloys, Surface Science 191 (1987) 339-352. *Erratum* 199 (1988) 638
Liang, G.B., see Chmielowski 196 (1988) 299
Lietti, L., see Tronconi 199 (1988) 43
Lifshits, V.G., see Korobtsov 195 (1988) 466
Lim, K.Y., see Meisels 196 (1988) 177
Lin Zhangda, see Hu Yongjun 192 (1987) 283
Lindauer, G., see Légaré 198 (1988) 69
Lindberg, P.A.P., L.I. Johansson and A.N. Christensen, Angle-resolved photoemission study of the electronic band structure of VC(100) 192 (1987) 353
Lindberg, P.A.P. and L.I. Johansson, A surface state on VC(100) identified by photoelectron spectroscopy and gas adsorption studies 192 (1987) 366
Lindberg, P.A.P. and L.I. Johansson, Work function and reactivity of some crystal faces of substoichiometric transition-metal carbides 194 (1988) 199
Lindner, Th., see Somers 198 (1988) 400
Lindroos, M., H. Pfnür and D. Menzel, Investigation of a disordered adsorption system by electron reflection: H/Ru(001) at intermediate coverages 192 (1987) 421

Liou, Y., see Tsong 200 (1988) 220
Liu, H.M., see Tsong 199 (1988) 421
Liu, H.M., see Tsong 200 (1988) 220
Liu, N.L., see Guvenc 192 (1987) 529
Liu, N.L., B.H. Choi and X. Shen, Selective adsorption of H_2 + Cu(001) surface. I. A quasiclassical trajectory study 198 (1988) 79
Liu, N.L., see Choi 198 (1988) 99
Liu, W.-K., see Corey 191 (1987) 203
Lo, T.-C. and G. Ehrlich, Activated chemisorption of methane and tunneling: a second look. Reply to a Comment by B.D. Kay and M.E. Coltrin 198 (1988) L380
Loiacono, D.N., see Chidsey 200 (1988) 45
López, C., see Calleja 196 (1988) 578
Lopez-Rios, T., see Gao 198 (1988) 509
López Sancho, J.M., see Rubio 199 (1988) 297
López Sancho, M.P., see Rubio 199 (1988) 297
Louis, E. and F. Flores, Many-body effects in the Si(111)7 × 7 reconstructed surface 197 (1988) L269
Lovisa, M.F., see Schmidt 194 (1988) 127
Loxton, C.M., see Venezia 194 (1988) 136
Lu, J.-P., M.R. Albert, S.L. Bernasek and D.J. Dwyer, Adsorption state conversion of CO on Fe(100) 199 (1988) L406
Lu, X.J., see Yang 196 (1988) 487
Lucchese, R.R., see Lee 193 (1988) 486
Lucchese, R.R., see NoorBatcha 200 (1988) 113
Ludwig, P., see Delaunay 197 (1988) L273
Lue, J.T., see Tzeng 192 (1987) 491
Lundström, I., see Dannetun 193 (1988) 109
Luntz, A.C., see Bethune 197 (1988) 44
Lüth, H., see Ehlers 191 (1987) 466

Maan, J.C., see Haug 196 (1988) 242
Maan, J.C., Magneto-optical properties of superlattices and quantum wells 196 (1988) 518
MacDonald, R.J., see O'Connor 197 (1988) 277
Maciejewski, W., Localized states in thin films with internal disturbed sublayer 200 (1988) 164
MacKinnon, A., see Movaghar 196 (1988) 381
Mackrodt, W.C., see Cotter 197 (1988) 208
Madey, T.E., see Benndorf 194 (1988) 63
Madix, R.J., see Burke 194 (1988) 223
Madix, R.J., J.L. Solomon and J. Stöhr, The orientation of the carbonate anion on Ag(110) 197 (1988) L253
Mahanty, J., see Lagos 191 (1987) L806
Maheswaran, B., see Markiewicz 196 (1988) 707
Mailhiot, C., see Smith 196 (1988) 683
Main, P.C., see Taylor 196 (1988) 52
Maire, G., see Légaré 198 (1988) 69
Mak, C.H., J.L. Brand, B.G. Koehler and S.M. George, Coverage dependence of the surface diffusion coefficient for hydrogen on Ru(001) 191 (1987) 108
Maksym, P.A., see Knibb 195 (1988) 475
Malkin, A.A., see Elango 194 (1988) 548

Mallett, J.R., see Clark 196 (1988) 219
Malm, J.-O. and J.-O. Bovin, Real time imaging of moving atom columns on surfaces of gold crystals 200 (1988) 67
Mandel, T., M. Domke and G. Kaindl, Layer-resolved band dispersion of rare-gas multilayers on graphite(001) 197 (1988) 81
Maniv, T., see Hoffman 193 (1988) 57
Maniv, T., see Hoffman 193 (1988) 513
Mankiewich, P., see Timp 196 (1988) 68
Mankiewich, P.M., see Chang 196 (1988) 46
Manson, J.R. and G. Armand, Simple approximation to thermal attenuation in low energy atom–surface scattering: multiple phonon processes 195 (1988) 513
Marcano, J., see Darici 195 (1988) 566
Marchese, L., see Zecchina 194 (1988) 531
Marcus, P.M., see Jona 192 (1987) 414
Marée, P.M.J., K. Nakagawa, F.M. Mulders, J.F. van der Veen and K.L. Kavanagh, Thin epitaxial Ge–Si(111) films: study and control of morphology 191 (1987) 305
Marinova, Ts.S. and P.K. Stefanov, Adsorption and thermal evolution of acetylene on a Cu(100) surface 191 (1987) 66
Marinova, Ts.S. and D.V. Chakarov, Adsorption of ethylene on Ir(111) 192 (1987) 275
Marinova, Ts.S., see Stefanov 200 (1988) 26
Marinova, Ts.S. and D.V. Chakarov, Hydrogen isotope exchange in a coverage obtained on Ir(111) by ethylene adsorption 200 (1988) 309
Markiewicz, R.S., M. Meskoob and B. Maheswaran, Landau gap in a two-dimensional hole gas 196 (1988) 707
Marques, G.E., V.A. Chitta, M.H. Degani and O. Hipólito, Bound magnetic polaron in semimagnetic semiconductor heterostructures 196 (1988) 659
Martin, K.P., R.J. Higgins, J.J.L. Rascol, H. Yoo and J.R. Arthur, Quantum lifetime measurements of the two-dimensional electron gas at the inverted AlGaAs/GaAs interface 196 (1988) 323
Martinez-Duart, J.M., see Palacio 191 (1987) 385
Masri, P. and L. Dobrzynski, Interface response theory of *N*-layered metallic superlattices 198 (1988) 285
Massunaga, M.S.O., see De Mello 199 (1988) 579
Mate, C.M., C.-T. Kao, B.E. Bent and G.A. Somorjai, The surface structure and thermal decomposition of acetylene on the Rh(111) single crystal surface and the effect of coadsorbed carbon monoxide 197 (1988) 183
Matsunami, H., see Iwami 199 (1988) 467
Matsunami, N., Y. Hasebe and N. Itoh, Determination of the absolute cross section of electron-stimulated-desorption of deuterium from Si(111) 192 (1987) 27
Matsushima, T., Angular distribution of the combinative desorption of nitrogen atoms on Ru(001) surfaces 197 (1988) L287
Matthew, J.A.D., see Dwyer 193 (1988) 549
Mayoral, C., see Delaunay 195 (1988) 455
Mazur, P., Potential barrier at the NaCl–Si(111) interface 200 (1988) 454
McBreen, P.H., S. Moore, A. Adnot and D. Roy, SIMS study of the interaction of CO and O_2 with K adsorbed on Au 194 (1988) L112
McBreen, P.H., S. Serghini-Monim, D. Roy and A. Adnot, Decomposition of formic acid on FeTi 195 (1988) L208
McCann, A. and J.S. Brown, A self-consistent calculation of the tunneling barrier of metal–vacuum–metal junctions: application to W–Vac–Au 194 (1988) 44

McCash, E.M., see Chenery 198 (1988) 1
McCombe, B.D., see Cheng 196 (1988) 268
McCombe, B.D., see Mercy 196 (1988) 334
McConville, C.F., see Woodruff 195 (1988) 237
McEllistrem, M.T., see Benson 193 (1988) L37
McInnes, J.A., see Butcher 196 (1988) 139
McIntyre, I., see Taylor 196 (1988) 52
Meath, W.J., see Thuraisingham 199 (1988) 199
Meisels, R., F. Kuchar, K.Y. Lim, G. Weimann and W. Schlapp, The intrinsic plateau width and the effect of the sample boundaries on the integral quantum Hall effect in GaAs/AlGaAs 196 (1988) 177
Mellor, C.J., C.M. Muirhead, J. Traverse and W.F. Vinen, The search for crystallization of a two-dimensional pool of ions trapped below the surface of superfluid ^{4}He 196 (1988) 33
Melmed, A.J. and N.D. Shinn, Nucleation and epitaxial growth of Cr crystals on stepped W surfaces with low-index facets 193 (1988) 475
Melmed, A.J., see Schmidt 194 (1988) 127
Melroy, O.R., see Samant 193 (1988) L29
Memmel, N., see Benndorf 191 (1987) 455
Memming, R., see Reineke 192 (1987) 66
Méndez, E.E., see Calleja 196 (1988) 578
Menon, M. and R.E. Allen, Dynamics of chemisorption and indiffusion at semiconductor surfaces 197 (1988) L237
Menzel, D., see Hofmann 191 (1987) 353
Menzel, D., see Lindroos 192 (1987) 421
Mercy, J.-M., B.D. McCombe, W. Beard, J. Ralston and G. Wicks, Barrier impurity states in modulation doped AlGaAs/GaAs multi-quantum wells 196 (1988) 334
Merkt, U., see Oelting 196 (1988) 273
Merlin, R., see Borroff 196 (1988) 626
Meskoob, M., see Markiewicz 196 (1988) 707
M'hamedi, O., F. Proix, J.P. Lacharme and C.A. Sébenne, Interaction of atomic hydrogen with InP(100): comparison with the cleaved surface interaction 199 (1988) 121
Michel, C., see Easwarakhanthan 197 (1988) 339
Michel, E.G., M.C. Asensio and S. Ferrer, Epitaxy of Pt on Au(001): growth mode, interface state and Pt core-level shifts 198 (1988) L365
Mihailovič, D., see Westland 196 (1988) 399
Mikhailov, S.N., see Gall 191 (1987) 185
Mileshkina, N.V. and E.A. Semykina, Numerical computation of potential profiles and energy spectrum in the space charge region of semiconductors at high electric field 200 (1988) 179
Militzer, M. and J. Wieting, Segregation kinetics with nonhomogeneous initial distributions 192 (1987) L905
Militzer, M., see Arabczyk 198 (1988) 167
Militzer, M. and J. Wieting, Segregation kinetics and surface phase transitions 200 (1988) 342
Miller, A., see Dowben 193 (1988) 336
Mills, Jr., A.P., see Gullikson 195 (1988) L150
Mills, D.L., see Lehwald 192 (1987) 131
Mimata, K., see Morishige 192 (1987) 197
Min, H., see Darici 195 (1988) 566

Miner, C.J., see D'Iorio 196 (1988) 165
Mitchell, G.E., M.A. Henderson and J.M. White, The adsorption of PH_3 on Pt(111) and its influence on coadsorbed CO 191 (1987) 425
Mitchell, G.E., M.A. Schulz and J.M. White, The reaction of H_2S with adsorbed oxygen atoms on platinum (111) 197 (1988) 379
Miura, N., see Lee 196 (1988) 534
Miura, S., K. Kato, T. Ide and T. Ichinokawa, Formation of superstructures in Ge-deposited surfaces of Si(110) by annealing 191 (1987) 259
Miura, S., see Kato 194 (1988) L87
Miyamoto, Y., see Cho 192 (1987) L835
Mizuno, S., see Ichimiya 191 (1987) L765
Modak, S. and B.C. Khanra, Studies on the effect of surface segregation on hydrocarbon conversion over Cu–Ni alloys 199 (1988) 361
Mödl, A., see Budde 192 (1987) 507
Monkenbusch, M. and H.J. Lauter, Structure and dynamics of an 2D hydrogen bonded adlayer – imidazole on grafoil 191 (1987) 547
Montano, P.A., see Darici 195 (1988) 566
Mooij, J.E., see Van Houten 196 (1988) 144
Moore, S., see McBreen 194 (1988) L112
Moore, T., see D'Iorio 196 (1988) 165
Morán-López, J.L., see Sanchez 198 (1988) L299
Morawitz, H., see Rettner 192 (1987) 107
Morawski, A., see Tan 195 (1988) L193
Morgen, P., M. Szymonski, J. Onsgaard, B. Jørgensen and G. Rossi, Formation of the Pt–Si(111) interface 197 (1988) 347
Morimoto, T., see Kuwabara 193 (1988) 271
Morishige, K., K. Mimata and S. Kittaka, X-ray study of oxygen monolayers on graphite 192 (1987) 197
Morkoç, H., see Oberli 196 (1988) 611
Mortensen, K., see Besenbacher 191 (1987) 288
Mosser, A., see Es-Souni 199 (1988) 439
Motooka, T., see Salaneck 198 (1988) 461
Mottahedeh, R., see Pooke 196 (1988) 59
Movaghar, B., J. Leo and A. MacKinnon, Elastic and inelastic tunneling in multiple quantum well structures 196 (1988) 381
Moylan, T.E., see Wagner 191 (1987) 121
Moylan, T.E., see Wagner 195 (1988) 403
Mróz, S., see Doliński 200 (1988) 361
Muirhead, C.M., see Mellor 196 (1988) 33
Mulders, F.M., see Marée 191 (1987) 305
Müller, F., see Kemmann 192 (1987) 11
Müller, K., see Heinz 191 (1987) 174
Müller, K., see Pendry 193 (1988) L1
Mullins, D.R. and S.H. Overbury, The structure of the carburized W(001) surface 193 (1988) 455
Mullins, D.R. and S.H. Overbury, The structure of the carburized W(001) surface, Surface Science 193 (1988) 455–474. *Erratum* 197 (1988) 594
Mullins, D.R. and S.H. Overbury, The structure and composition of the NiAl(110) and NiAl(100) surfaces 199 (1988) 141
Mullins, W.W., see Barnard 197 (1988) 363

Mundenar, J.M., E.W. Plummer, L.G. Sneddon, A.P. Baddorf, D.M. Zehner and G.R. Gruzalski, Reply to "Comment on 'Oxygen chemisorption on Cu(110)' " by K. Prabhakaran and C.N.R. Rao 198 (1988) L309
Munekata, H., see Awschalom 196 (1988) 649
Munekata, H., see Smith, III 196 (1988) 687
Murata, Y., see Iwami 194 (1988) 115
Musser, D., see Gammon 196 (1988) 359
Müssig, H.-J., see Arabczyk 198 (1988) 167

Nachev, I., see Shikin 196 (1988) 494
Naegele, J., see Schultz 198 (1988) 301
Nagashima, N., see Kawaji 196 (1988) 316
Nakagawa, K., see Marée 191 (1987) 305
Nakahara, S., see Chidsey 200 (1988) 45
Nakamatsu, H., A. Sudo and S. Kawai, Relaxation of the MgO(100) surface studied by ICISS 194 (1988) 265
Nakamura, H., see Iwami 199 (1988) 467
Nakamura, T., see Uno 193 (1988) 321
Nakanishi, H., H. Kasai and A. Okiji, Charge exchange scattering of particles from metal surfaces 197 (1988) 515
Nakanishi, S. and K. Sasaki, Adsorption of sulfur on the iron (001) surface 194 (1988) 245
Nakatani, S., see Takahashi 191 (1987) L825
Namiki, A., see Uno 193 (1988) 321
Naparty, M., A. Dittmar-Wituski and J. Skonieczny, Are EELS and TCS methods complementary? 200 (1988) 519
Narayanamurti, V., see Eisenstein 196 (1988) 445
Naschitzki, M., see Schmidt 194 (1988) 127
Nash, K.J., see Skolnick 196 (1988) 507
Naumovets, A.G., V.V. Poplavsky and Yu.S. Vedula, Diffusion and phase transitions in barium monolayers on the (011) plane of tungsten 200 (1988) 321
Neddermeyer, H., see Kemmann 192 (1987) 11
Neddermeyer, H., see Berghaus 193 (1988) 235
Neddermeyer, H., see Radlik 195 (1988) 195
Netzer, F.P., E. Bertel and A. Goldmann, Structure and surface chemistry of 5-membered cyclic molecules on Rh(111): pyrrole 199 (1988) 87
Neumann, M., see Odörfer 198 (1988) 331
Newton, M.I., see Kent 196 (1988) 410
Ng, L., see Chen 194 (1988) 397
Nicholas, R.J., see Clark 196 (1988) 219
Nicholas, R.J., see Haug 196 (1988) 242
Nicholas, R.J., see Singleton 196 (1988) 429
Nicholas, R.J., see Brummell 196 (1988) 451
Nicholson, D., see Kim 198 (1988) 555
Nicol, J.M., J.J. Rush and R.D. Kelley, Inelastic neutron scattering studies of the interaction of hydrogen with palladium black 197 (1988) 67
Niehaus, A., see Zeijlmans van Emmichoven 195 (1988) 115
Niemeyer, J., see Bliek 196 (1988) 156
Nieminen, R.M., see Lampinen 200 (1988) 101
Nieuwenhuys, B.E., see Vurens 192 (1987) 438
Nieuwenhuys, B.E., see Van Delft 193 (1988) 304

Nihei, Y., see Tamura 197 (1988) L281
Nishijima, M., see Tanaka 191 (1987) L756
Nishijima, M., J. Yoshinobu, H. Tsuda and M. Onchi, The adsorption and thermal decomposition of acetylene on Si(100) and vicinal Si(100)9° 192 (1987) 383
Nishina, Y., see Iwasaki 198 (1988) 524
Nishina, Y., see Sasaki 198 (1988) 541
Nkoma, J.S., Surface phonon polaritons in finite semiconductor superlattices 191 (1987) 595
Noda, T., see Hirakawa 196 (1988) 365
NoorBatcha, I., R.R. Lucchese and Y. Zeiri, Anisotropic translational energy distribution due to gas-phase collisions in rapid desorption of molecules from surfaces 200 (1988) 113
Nørskov, J.K., see Stoltze 197 (1988) L230
Norton, P.R., see Harrington 195 (1988) L135
Norton, P.R., see He 195 (1988) L199
Norton, P.R., see He 198 (1988) 413
Nougaoui, A. and B. Djafari Rouhani, Complex band structure of acoustic waves in superlattices 199 (1988) 623
Nourtier, A., Expression of the ionisation probability for sputtering from a metal with an arbitrary electronic structure 191 (1987) L794
Nurmikko, A.V., Quasi-two-dimensional excitons in selected II–VI compound semiconductor superlattices: the case of a small valence band offset 196 (1988) 632

Oberli, D.Y., D.R. Wake, M.V. Klein, T. Henderson and H. Morkoç, Picosecond studies of intersubband relaxation in semiconductor quantum wells 196 (1988) 611
Obolenskaya, L.N., see Zverkov 200 (1988) 540
Ocal, C. and S. Ferrer, Low temperature diffusion of Pt and Au atoms through thin TiO_2 films on a Ti substrate 191 (1987) 147
O'Connor, D.J., Y.G. Shen, J.M. Wilson and R.J. MacDonald, The role of the electronic structure in charge exchange between low energy ions and surfaces 197 (1988) 277
Odörfer, G., E.W. Plummer, H.-J. Freund, H. Kuhlenbeck and M. Neumann, On the electronic structure of the coadsorbate system CO + O (2×1) /Pd(111): a precursor for CO_2 formation 198 (1988) 331
Oechsner, H., see Wucher 199 (1988) 567
Oed, W., see Pendry 193 (1988) L1
Oelting, S., A.D. Wieck, E. Batke and U. Merkt, Cyclotron masses of inversion electrons in tilted magnetic fields 196 (1988) 273
Ohno, T.R., see Akinci 193 (1988) 534
Ohtake, N., see Uno 193 (1988) 321
Ohtsuki, T., see Kramer 196 (1988) 127
Ohuchi, F.S., W. Jaegermann and B.A. Parkinson, XPS investigation of the reaction of SnS_2(0001) with Cu 194 (1988) L69
Oitmaa, J., see Selke 198 (1988) L346
Okiji, A., see Nakanishi 197 (1988) 515
Okuda, T., see Huzimura 197 (1988) 444
Onchi, M., see Tanaka 191 (1987) L756
Onchi, M., see Nishijima 192 (1987) 383
Onishi, H., C. Egawa, T. Aruga and Y. Iwasawa, Adsorption of Na atoms and oxygen-containing molecules on MgO(100) and (111) surfaces 191 (1987) 479

Onishi, H., T. Aruga, C. Egawa and Y. Iwasawa, Adsorption of CH_3OH, HCOOH and SO_2 on $TiO_2(110)$ and stepped $TiO_2(441)$ surfaces 193 (1988) 33
Onishi, H., T. Aruga, C. Egawa and Y. Iwasawa, Modification of surface electronic structure on $TiO_2(110)$ and $TiO_2(441)$ by Na deposition 199 (1988) 54
Ono, Y., see Kramer 196 (1988) 127
Onsgaard, J., see Morgen 197 (1988) 347
Orgonasi, J., see Brum 196 (1988) 512
Orlowski, B.A., J.P. Lacharme, S. Bensalah and C.A. Sebenne, Electronic properties of cleaved CdTe(110) surfaces 200 (1988) L460
Orlowski, B.A., Electronic surface states investigated by means of photoemission spectroscopy 200 (1988) 144
Ortega, J., see Sánchez-Dehesa 200 (1988) 424
Oshima, C., see Wuttig 192 (1987) 573
Oshima, C., see Wuttig 193 (1988) 180
Oshima, C., see Souda 194 (1988) L119
Oshima, C., see Souda 199 (1988) 154
Otani, S., see Wuttig 192 (1987) 573
Otani, S., see Wuttig 193 (1988) 180
Otani, S., see Souda 194 (1988) L119
Otani, S., see Souda 199 (1988) 154
Otto, A., see Bornemann 195 (1988) 161
Overbury, S.H., see Mullins 193 (1988) 455
Overbury, S.H., see Mullins 197 (1988) 594
Overbury, S.H., see Mullins 199 (1988) 141

Paalanen, M.A., see Adams 196 (1988) 150
Pacey, P.D., see Allen 199 (1988) 309
Packard, W.E. and M.B. Webb, Xenon and krypton adsorption on Ge(111) 195 (1988) 371
Pak, H., see Evans 192 (1987) 475
Pak, H., see Evans 199 (1988) 28
Palacio, C., J.M. Sanz and J.M. Martinez-Duart, Low energy electron emission and EELS of clean and oxidised zirconium 191 (1987) 385
Palaikis, L., D. Zurawski, M. Hourani and A. Wieckowski, Surface electrochemistry of carbon monoxide adsorbed from electrolytic solutions at single crystal surfaces of Pt(111) and Pt(100) 199 (1988) 183
Paparazzo, E., Comment on 'Structure of α-Fe_2O_3 single crystal surfaces following Ar^+ ion bombardment and annealing in O_2' by R.J. Lad and V.E. Henrich 200 (1988) L470
Park, R.L., see Hwang 193 (1988) L53
Parker, I., see Bowker 197 (1988) L223
Parkinson, B.A., see Ohuchi 194 (1988) L69
Parrill, T.M., Y.W. Chung and K.A. Stair, The effect of oxygen exposure on subsequent deposition of thin gold films on clean InP($\bar{1}\bar{1}\bar{1}$) surfaces 195 (1988) 443
Patel, J.R., see Zinke-Allmang 197 (1988) 1
Pater, K., Silicon work function in Al–SiO_2–Si system 200 (1988) 187
Paton, A., see Duke 197 (1988) 11
Patrykiejew, A., see Łajtar 200 (1988) 287
Patrykiejew, A., see Łajtar 200 (1988) 298
Paul, J. and F.M. Hoffmann, Hydrogen adsorption on alkali modified aluminum 194 (1988) 419
Pavlovska, A., H. Steffen and E. Bauer, A comparison of thermal desorption techniques at high temperatures: Au on Mo(110) 195 (1988) 207

Pavluch, J., see Eckertová 200 (1988) 514
Payling, C.A., E.S. Alves, L. Eaves, T.J. Foster, M. Henini, O.H. Hughes, P.E. Simmonds, F.W. Sheard, G.A. Toombs and J.C. Portal, Evidence for sequential tunnelling and charge build-up in double barrier resonant tunnelling devices 196 (1988) 404
Payne, S.H., see Kreuzer 198 (1988) 235
Payne, S.H., see Kreuzer 200 (1988) L433
Peden, C.H.F., see Houston 192 (1987) 457
Peden, C.H.F., D.W. Goodman, J.E. Houston and J.T. Yates, Jr., Subsurface hydrogen on Ru(0001): quantification by Cu titration 194 (1988) 92
Peeters, F.M., Wu Xiaoguang and J.T. Devreese, Polaron cyclotron mass in $GaAs/Al_xGa_{1-x}As$ heterostructures 196 (1988) 437
Peisert, J., see Błażej 200 (1988) 408
Pendry, J.B., K. Heinz, W. Oed, H. Landskron, K. Müller and G. Schmidtlein, A disordered model for the W(100)1 × 1 surface 193 (1988) L1
Pendry, J.B., see De Andres 193 (1988) 1
Peng, L.-M. and J.M. Cowley, A multislice approach to the RHEED and REM calculation 199 (1988) 609
Peng, X.D., D.S. Edwards and M.A. Barteau, Reactions of O_2 and H_2O with magnesium nitride films 195 (1988) 103
Penn, D.R., see Tanuma 192 (1987) L849
Pepper, M., see Pooke 196 (1988) 59
Perry, C.H., K.S. Lee, W. Zhou, J.M. Worlock, A. Zrenner, F. Koch and K. Ploog, Magneto-optical studies of a silicon delta-doping layer in n-GaAs 196 (1988) 677
Petersson, L.-G., see Dannetun 193 (1988) 109
Pethica, J.B., see Coombs 198 (1988) L353
Petrakian, J.P. and P. Renucci, Influence of the depth resolution on the resulting AES profiles of components in multilayer thin film structures 195 (1988) 151
Pfnür, H., see Lindroos 192 (1987) 421
Pham, T., see Smith, III 196 (1988) 287
Phaneuf, R.J. and E.D. Williams, Metastable structures of Si(111) formed by laser-quenching 195 (1988) 330
Phillips, J.M., see Gullikson 195 (1988) L150
Phipps, J.A., see Chrisey 195 (1988) 594
Pidgeon, C.R., see Gornik 196 (1988) 339
Pientka, Z., see Černý 191 (1987) 449
Pinczuk, A., see Goldberg 196 (1988) 209
Pinczuk, A., see Zucker 196 (1988) 563
Pinczuk, A., see Goldberg 196 (1988) 619
Pirug, G. and H.P. Bonzel, Ordering of potassium overlayers on Pt(111) 194 (1988) 159
Pirug, G. and H.P. Bonzel, Short range interaction of K and CO coadsorbed on Pt(111) 199 (1988) 371
Platero, G., see Altarelli 196 (1988) 540
Platzman, P.M., see Goodkind 196 (1988) 38
Plesiewicz, W., see Chmielowski 196 (1988) 299
Ploog, K., see Ensslin 196 (1988) 263
Ploog, K., see Rikken 196 (1988) 303
Ploog, K., see Kotthaus 196 (1988) 600
Ploog, K., see Zrenner 196 (1988) 671
Ploog, K., see Perry 196 (1988) 677
Plummer, E.W., see Heskett 195 (1988) 94

Plummer, E.W., see Heskett 197 (1988) 225
Plummer, E.W., see Mundenar 198 (1988) L309
Plummer, E.W., see Odörfer 198 (1988) 331
Pohlmann, H., see Kotthaus 196 (1988) 600
Pollmann, J., see Kalla 200 (1988) 80
Ponec, V., see Hendrickx 192 (1987) 234
Pooke, D., R. Mottahedeh, M. Pepper and A. Gundlach, Quantum transport in narrow Si accumulation layers 196 (1988) 59
Poplavsky, V.V., see Naumovets 200 (1988) 321
Portal, J.C., see Payling 196 (1988) 404
Powell, C.J., see Tanuma 192 (1987) L849
Prabhakaran, K. and C.N.R. Rao, Comment on 'Oxygen chemisorption on Cu(110)' by J.M. Mundenar, A.P. Baddorf, E.W. Plummer, L.G. Sneddon, R.A. DiDio and D.M. Zehner 198 (1988) L307
Preisinger, A., see Diebold 197 (1988) 430
Price, P.J., Tunneling in AlGaAs by Γ–X scattering 196 (1988) 394
Prince, K.C., Adsorption of potassium on Pb(110) 193 (1988) L24
Prince, K.C., K. Dückers, K. Horn and V. Cháb, Orientation of molecular oxygen on Pt(110) 200 (1988) L451
Prince, N.P., see Woodruff 195 (1988) 237
Proix, F., see M'hamedi 199 (1988) 121
Pytel, Z., see Korneta 192 (1987) L899
Pytel, Z., see Korneta 200 (1988) 368
Pytel, Z., see Korneta 200 (1988) 374

Qu Zhe and Xie Tian-Sheng, Auger-ion sputter profiling of some homogeneous binary systems 194 (1988) L127
Quentel, G., M. Gauch and A. Degiovanni, In situ ellipsometry studies of the growth of Pb on Si(111) surfaces 193 (1988) 212
Quinn, J.J., see Hawrylak 196 (1988) 482

Rabalais, J.W., see Sass 194 (1988) L95
Radlik, W. and H. Neddermeyer, UV photoemission study of the system Cu on Si(100)2 × 1 195 (1988) 195
Radloff, P.L., see Greenlief 191 (1987) 93
Radoń, T. and S. Jaskólka, Photofield emission spectroscopy of electronic states near the Fermi level of ⟨111⟩ tungsten 200 (1988) 199
Raff, L.M., see Agrawal 195 (1988) 283
Raff, L.M., see Rice 198 (1988) 360
Rafol, S., see Woo 196 (1988) 665
Rahman, T., see Harris 198 (1988) L312
Ralston, J., see Mercy 196 (1988) 334
Rampton, V.W., see Kent 196 (1988) 410
Ranke, W., H.J. Kuhr and J. Finster, Orientation and temperature dependent adsorption of H_2S on GaAs: valence band photoemission 192 (1987) 81
Rao, C.N.R., see Prabhakaran 198 (1988) L307
Rascol, J.J.L., see Martin 196 (1988) 323
Ravelet, S., see Easwarakhanthan 197 (1988) 339
Refolio, M.C., see Rubio 199 (1988) 297

Regreny, A., see Deveaud 196 (1988) 386
Reichelt, M.A., see Judd 198 (1988) 26
Reihl, B., see Bornemann 195 (1988) 161
Reimer, W., Th. Fink and J. Küppers, Inverse photoemission spectroscopy of H, CO and NO adsorbed at Ni(100) and Ni(111) surfaces 193 (1988) 259
Reineke, R. and R. Memming, High barrier GaAs/metal Schottky junctions produced by electrochemical metal deposition 192 (1987) 66
Reller, A., see Scarano 198 (1988) 11
Remenyi, G., see Waag 196 (1988) 328
Ren, D.G., see Wang 197 (1988) 327
Renucci, P., see Petrakian 195 (1988) 151
Rettner, C.T., J. Kimman, F. Fabre, D.J. Auerbach and H. Morawitz, Direct vibrational excitation in gas–surface collisions of NO with Ag(111) 192 (1987) 107
Reynolds, A.E., D.J.Tildesley and J.S. Foord, Geometric effects in the control of catalytic selectivity by surface additives: Monte Carlo simulation studies 191 (1987) 239
Rhead, G.E., Particle array techniques: application to surface diffusion measurements 192 (1987) 597
Rice, B.M., L.M. Raff and D.L. Thompson, Dynamics of chemisorption/scattering of atomic hydrogen on partially covered Si(111) surfaces 198 (1988) 360
Richter, L.J., T.A. Germer and W. Ho, Coadsorption-induced site changes: bridging hydrogen from CO and H on Rh(100) 195 (1988) L182
Ridley, B.K., see Babiker 196 (1988) 422
Rikken, G.L.J.A., P. Wyder, K. Ploog, J.M. Chamberlain, R.T. Grimes and G. Hill, Nanosecond far infra red magnetospectroscopy of GaAs/AlGaAs heterostructures 196 (1988) 303
Riley, C.E., see Woodruff 195 (1988) 237
Ritchie, R.H., see Sols 194 (1988) 275
Riwan, R., see Cassuto 194 (1988) 579
Roberts, J.T. and C.M. Friend, Vibrational studies of 1-propanethiol on Mo(110). Spectroscopic evidence for low temperature thiolate formation 198 (1988) L321
Robins, J.L., see Gates 191 (1987) 492
Robins, J.L., see Gates 191 (1987) 499
Robins, J.L., see Gates 194 (1988) 13
Robinson, A.W., see Hayden 192 (1987) 163
Rockett, A., see Barnett 198 (1988) 133
Rockett, A., see Salaneck 198 (1988) 461
Rodriguez, J.A. and C.T. Campbell, A quantum-chemical study of the chemisorption of ammonia, pyridine, formaldehyde, formate, and methoxy on ZnO(0001) 194 (1988) 475
Rodriguez, J.A. and C.T. Campbell, A quantum-chemical study of the adsorption of water, formaldehyde and ammonia on copper surfaces and water on ZnO(0001) 197 (1988) 567
Roe, D.K., see Bethune 197 (1988) 44
Rogers, D.C., see Singleton 196 (1988) 429
Rogozik, J., see Benndorf 191 (1987) 455
Röhrer, L., see Ertl 199 (1988) 537
Romppainen, P., see Lantto 192 (1987) 243
Rorison, J.M., see Skolnick 196 (1988) 507
Rosén, A., see Wästberg 193 (1988) L7
Rossi, G., see Morgen 197 (1988) 347

Rostaing, P., see Bindi 197 (1988) 295
Rothenhäusler, B. and W. Knoll, On the influence of the propagation length of plasmon surface polaritons in the visible energy range for the optical characterization of heterogeneous thin films 191 (1987) 585
Roukes, M.L., A. Scherer, H.G. Craighead, S.J. Allen, Jr., R.M. Ruthen, E.D. Beebe and J.P. Harbison, Transport in ultra-narrow quantum well wires 196 (1988) 79
Rous, P.J., see Clarke 192 (1987) L843
Rous, P.J., see De Andres 193 (1988) 1
Roy, D., see McBreen 194 (1988) L112
Roy, D., see McBreen 195 (1988) L208
Rozwadowski, M., see Bukaluk 200 (1988) 381
Rubio, J., J.M. López Sancho, M.C. Refolio and M.P. López Sancho, The dynamic form factor of a one-level adsorbate: cluster–Bethe lattice approach in configuration space 199 (1988) 297
Ruckenstein, A.E., see Goodkind 196 (1988) 38
Ruppender, H.-J., see Dowben 193 (1988) 336
Rush, J.J., see Nicol 197 (1988) 67
Russell, P.A., see Kent 196 (1988) 410
Ruthen, R.M., see Roukes 196 (1988) 79
Rut'kov, E.V., see Gall 191 (1987) 185
Ryan, J.F., see Westland 196 (1988) 399

Sachrajda, A.S., see D'Iorio 196 (1988) 165
Sagner, H.J., see Frick 193 (1988) 529
Sagurton, M., P. Xu, R.F. Garrett and G.P. Williams, Determination of the energy of the σ level for CO adsorbed on Ni(001) using both Auger and direct photoemission 199 (1988) L413
Saiki, K., Y. Sato, K. Ando and A. Koma, In-situ observation of defect formation in CaF_2(111) surfaces induced by low energy electron bombardment 192 (1987) 1
Saitoh, M., Melting and transport properties of two-dimensional Wigner crystals on liquid He 196 (1988) 8
Sakaki, H., see Wakabayashi 196 (1988) 236
Sakaki, H., see Hirakawa 196 (1988) 365
Sakurai, T., see Wadayama 198 (1988) L359
Salaneck, W.R., R. Bergman, J.-E. Sundgren, A. Rockett, T. Motooka and J.E. Greene, Adsorption of tri-methyl aluminum molecules on silicon 198 (1988) 461
Salmeron, M., see Levin 195 (1988) 341
Salmeron, M., see Levin 195 (1988) 429
Salmeron, M., see Vurens 199 (1988) L387
Salvador, P., Subbandgap photoresponse of n-TiO_2 electrodes: transient photocurrent–time behaviour 192 (1987) 36
Samant, M.G., M.F. Toney, G.L. Borges, L. Blum and O.R. Melroy, In-situ grazing incidence X-ray diffraction study of electrochemically deposited Pb monolayers on Ag(111) 193 (1988) L29
Sanchez, J.M. and J.L. Morán-López, Surface ferromagnetism in close-packed structures 198 (1988) L299
Sánchez-Dehesa, J., F. Flores, J. Ortega and J.D. Dow, Schottky barrier formation in defect-free metal/III–V semiconductor junctions 200 (1988) 424
Sanz, J.M., see Palacio 191 (1987) 385

Sarkar, C.K., see Basu 196 (1988) 700
Sasaki, K., see Nakanishi 194 (1988) 245
Sasaki, Y., see Iwasaki 198 (1988) 524
Sasaki, Y., N. Iwasaki and Y. Nishina, Adsorption of CO_3 on a silver electrode in Na_2CO_3 solution studied by SERS 198 (1988) 541
Sass, C.S. and J.W. Rabalais, Chemisorption of carbonyl sulfide (OCS) on Ni between 77 and 293 K 194 (1988) L95
Sass, J.K., see Bethune 197 (1988) 44
Sasse, A.G.B.M., D.G. Lakerveld and A. van Silfhout, The adsorption of nitric oxide on a silicon (100) 2×1 surface studied with Auger electron spectroscopy 195 (1988) L167
Sasse, A.G.B.M., P.M. Kleinherenbrink and A. van Silfhout, Missing dimer defects investigated by adsorption of nitric oxide (NO) on silicon (100) 2×1 199 (1988) 243
Sato, Y., see Saiki 192 (1987) 1
Sauer, R., T.D. Harris and W.T. Tsang, Photoluminescence and photoluminescence excitation study of electron–hole tunneling in $In_{0.53}Ga_{0.47}As/InP$ coupled-single quantum wells 196 (1988) 388
Saville, G.F., see Goodkind 196 (1988) 38
Sawatzky, G.A., see Segeth 194 (1988) 615
Scarano, D., see Zecchina 194 (1988) 531
Scarano, D., A. Zecchina and A. Reller, IR study of CO adsorption on α-Cr_2O_3 198 (1988) 11
Schaaf, P. and P. Déjardin, Reflectivity of an interface with a sigmoidal index profile 191 (1987) 579
Schafer, K.J., N.-H. Kwong and J.D. Garcia, Ion–surface scattering in the time-dependent mean-field approximation 199 (1988) 132
Schattschneider, P., see Diebold 197 (1988) 430
Schellenberger, U., M. Abraham and U. Trutschel, Free surface plasmon propagation: a method for metal–electrolyte interface studies in the infrared spectral region 192 (1987) 555
Scherer, A., see Roukes 196 (1988) 79
Schlapp, W., see Bliek 196 (1988) 156
Schlapp, W., see Meisels 196 (1988) 177
Schlapp, W., see Waag 196 (1988) 328
Schlapp, W., see Brum 196 (1988) 512
Schlapp, W., see Abstreiter 196 (1988) 613
Schleich, B., D. Schmeisser and W. Göpel, Structure and reactivity of the system $Si/SiO_2/Pd$: a combined XPS, UPS and HREELS study 191 (1987) 367
Schmeisser, D., see Schleich 191 (1987) 367
Schmeisser, D., see Hornstein 192 (1987) 563
Schmidt, L.D., see Seebauer 193 (1988) 417
Schmidt, W.A., A.J. Melmed, M.F. Lovisa, M. Naschitzki and J.H. Block, Field-ion energy spectroscopy of gold overlayers on silicon 194 (1988) 127
Schmidtlein, G., see Pendry 193 (1988) L1
Schmieg, S.J., see Wagner 195 (1988) 403
Schmieg, S.J., see Belton 199 (1988) 518
Schneider, J. and D.M. Kolb, Potential-induced surface reconstruction of Au(100) 193 (1988) 579
Schneider, J., C. Franke and D.M. Kolb, Image-potential-induced surface states at the Ag(111)–electrolyte interface 198 (1988) 277

Schoofs, G.R. and J.B. Benziger, Reactions of pyrrole with Ni(100) 192 (1987) 373
Schultz, J.C., C.A. Colmenares, J. Naegele and J.C. Spirlet, X-ray photoelectron spectroscopic study of the surface reactions of UFe_2 with O_2, CO and CO_2 198 (1988) 301
Schulz, M.A., see Mitchell 197 (1988) 379
Schulz-Ekloff, G., see Lamber 197 (1988) 402
Scott, M.D., see Westland 196 (1988) 399
Sébenne, C.A., see M'hamedi 199 (1988) 121
Sébenne, C.A., see Orlowski 200 (1988) L460
Seebauer, E.G., A.C.F.Kong and L.D. Schmidt, The coverage dependence of the pre-exponential factor for desorption 193 (1988) 417
Segeth, W., J.H. Wijngaard and G.A. Sawatzky, The electronic structure of a new c(2 × 2) oxygen phase on Ag(110) 194 (1988) 615
Seidenbusch, W., see Gornik 196 (1988) 339
Seidl, M., see Tompa 198 (1988) 431
Seilmeier, A., see Abstreiter 196 (1988) 613
Selke, W. and J. Oitmaa, The roughening transition and the flattening of periodic surface profiles 198 (1988) L346
Semykina, E.A., see Mileshkina 200 (1988) 179
Sendecki, S., Photoemission measurements of KCl on Ag(110); adsorption parameters 200 (1988) 280
Serghini-Monim, S., see McBreen 195 (1988) L208
Serre, J., see Ghazali 196 (1988) 346
Seymour, D.L., see Woodruff 195 (1988) 237
Shah, J., see Deveaud 196 (1988) 386
Sham, L.J., see Eric Yang 196 (1988) 533
Sham, L.J., see Lamari 196 (1988) 551
Sham, T.K., see Hrbek 191 (1987) L772
Shanabrook, B.V., see Gammon 196 (1988) 359
Sharma, J.K.N., B.R. Chakraborty, S.M. Shivaprasad and J. Cazaux, Deep-level core-electron loss studies on silicon surface 193 (1988) L58
Shaw, J.J.A., see Heine 193 (1988) 153
Shaw, J.J.A., see Heine 193 (1988) 170
Sheard, F.W., see Payling 196 (1988) 404
Shek, M.-L., see Hrbek 191 (1987) L772
Shen, S., see Zaera 194 (1988) 205
Shen, X., see Liu 198 (1988) 79
Shen, X., see Choi 198 (1988) 99
Shen, Y.G., see O'Connor 197 (1988) 277
Shen, Y.R., see Superfine 200 (1988) L445
Shibahara, K., see Iwami 199 (1988) 467
Shikin, V.B. and I. Nachev, Edge electron states in charged two-dimensional systems 196 (1988) 494
Shima, N. and M. Tsukada, Microscopic theory of the field induced desorption 194 (1988) 312
Shimizu, N., Y. Tanishiro, K. Takayanagi and K. Yagi, On the vacancy formation and diffusion on the Si(111)7 × 7 surfaces under exposures of low oxygen pressure studied by in situ reflection electron microscopy 191 (1987) 28
Shimizu, R., see Ding 197 (1988) 539
Shinn, N.D., see Melmed 193 (1988) 475
Shivaprasad, S.M., see Sharma 193 (1988) L58

Siddiqui, H.R., X. Guo, I. Chorkendorff and J.T. Yates, Jr., CO adsorption site exchange between step and terrace sites on Pt(112) 191 (1987) L813
Siddiqui, H.R., A. Winkler, X. Guo, P. Hagans and J.T. Yates, Jr., Chemisorption site retention during thermal desorption – a study of O_2 chemisorption on Pt(112) 193 (1988) L17
Sigg, H., see Ensslin 196 (1988) 263
Sigg, H., D. Weiss and K. von Klitzing, Magnetotransport and cyclotron resonance investigations of the 2D electron gas in e^--beam irradiated AlGaAs/GaAs heterojunctions 196 (1988) 293
Simmonds, P.E., see Payling 196 (1988) 404
Simmons, J.A., D.C. Tsui and G. Weimann, Quantum interference effects in high-mobility mesoscopic GaAs/Al_xGa_{1-x}As heterostructures 196 (1988) 81
Singleton, J., R.J. Nicholas, D.C. Rogers and C.T.B. Foxon, Cyclotron resonance of electrons in a narrow GaAs/(Ga,Al)As quantum well: polaron effects and non-parabolicity 196 (1988) 429
Siuda, R., see Bukaluk 200 (1988) 381
Skolnick, M.S., J.M. Rorison, K.J. Nash and S.J. Bass, Fermi energy edge singularity in luminescence spectra from modulation-doped quantum wells 196 (1988) 507
Skonieczny, J., see Naparty 200 (1988) 519
Skośkiewicz, T., see Chmielowski 196 (1988) 299
Sleator, T., see Chidsey 200 (1988) 45
Slusarenko, V., see Lagos 191 (1987) L806
Smedley, J.E., see Corey 191 (1987) 203
Smeltzer, W.W., see Hajcsar 191 (1987) 249
Smith, D.L. and C. Mailhiot, Strained type II superlattices 196 (1988) 683
Smith, III, T.P., W.I. Wang, F.F. Fang, L.L. Chang, L.S. Kim, T. Pham and H.D. Drew, Magnetotransport and cyclotron resonance in AlAs quantum wells 196 (1988) 287
Smith, III, T.P., see Fang 196 (1988) 310
Smith, III, T.P., H. Munekata, L.L. Chang, F.F. Fang and L. Esaki, Magnetic-field-induced transitions in InAs/$Ga_{1-x}Al_xSb$ heterostructures 196 (1988) 687
Smoliner, J., see Lassnig 196 (1988) 367
Smyrl, W.H., see Kozlowski 194 (1988) 505
Sneddon, L.G., see Mundenar 198 (1988) L309
Snowdon, K.J., see Klekamp 200 (1988) L465
Sokołowski, S., see Łajtar 200 (1988) 287
Sokołowski, S., see Łajtar 200 (1988) 298
Solomon, J.L., see Madix 197 (1988) L253
Sols, F. and R.H. Ritchie, Self-energy of a charge near an interface 194 (1988) 275
Solymosi, F., J. Kiss and I. Kovács, Adsorption of HCOOH on Rh(111) and its reaction with preadsorbed oxygen 192 (1987) 47
Somers, J.S., M.E. Kordesch, R. Hemmen, Th. Lindner, H. Conrad and A.M. Bradshaw, An angle-resolved photoemission investigation of CN, HCN and C_2N_2 adsorbed on Pd{111} using synchrotron radiation 198 (1988) 400
Somorjai, G.A., see Gellman 191 (1987) 271
Somorjai, G.A., see Levin 195 (1988) 341
Somorjai, G.A., see Levin 195 (1988) 429
Somorjai, G.A., see Mate 197 (1988) 183
Somorjai, G.A., see Vurens 199 (1988) L387
Somorjai, G.A., see Tysoe 200 (1988) 1

Song, K.J., see Heskett 197 (1988) 225
Soole, J.B.D. and H.P. Hughes, Roughness-coupled light emission from tunnel junctions: the role of the fast surface plasmon 197 (1988) 250
Sorba, L., see Hinkel 194 (1988) 597
Sortais, P., see Delaunay 197 (1988) L273
Sotto, M.P., see Boulliard 195 (1988) 255
Souda, R., see Wuttig 192 (1987) 573
Souda, R., see Wuttig 193 (1988) 180
Souda, R., T. Aizawa, C. Oshima, S. Otani and Y. Ishizawa, Reionization contributions in low-energy scattering of He, Ne and Ar ions from Sn, Au, and $BaTiO_3$ 194 (1988) L119
Souda, R., C. Oshima, S. Otani, Y. Ishizawa and M. Aono, Structure analysis of oxygen adsorbed TiC(111) by impact collision ion scattering spectroscopy 199 (1988) 154
Sowa, E.C., M.A. Van Hove and D.L. Adams, The missing-row model for the reconstructed Pt(110)–(1 × 2) surface: a LEED intensity analysis showing multilayer distortions 199 (1988) 174
Spencer, M.S., α-brass formation in copper/zinc oxide catalysts. I. Bulk equilibrium concentrations of zinc under methanol synthesis and water–gas shift reaction conditions 192 (1987) 323
Spencer, M.S., α-brass formation in copper/zinc oxide catalysts. II. Diffusion of zinc in copper and α-brass under reaction conditions 192 (1987) 329
Spencer, M.S., α-brass formation in copper/zinc oxide catalysts. III. Surface segregation of zinc in α-brass 192 (1987) 336
Spirlet, J.C., see Schultz 198 (1988) 301
Spitzer, A., see Ehlers 191 (1987) 466
Sporken, R., P. Xhonneux, R. Caudano and J.P. Delrue, The formation of the Al–InSb(110) interface 193 (1988) 47
Springthorpe, A.J., see D'Iorio 196 (1988) 165
Sroubek, Z. and G. Falcone, Study of dynamical atom–surface interaction in nonideal solids 197 (1988) 528
Staines, M., see Calleja 196 (1988) 578
Stair, K.A., see Parrill 195 (1988) 443
Stan, M.A., see Jiang 196 (1988) 1
Stankiewicz, B., see Kisiel 200 (1988) 457
Steele, W.A., see Bojan 199 (1988) L395
Stefanov, P.K., see Marinova 191 (1987) 66
Stefanov, P.K. and Ts.S. Marinova, HREELS study of the interaction of oxygen with a Mo(111) surface 200 (1988) 26
Steffen, H., see Pavlovska 195 (1988) 207
Steigerwald, D.A. and W.F. Egelhoff, Jr., Observation of intensity oscillations in RHEED during the epitaxial growth of Cu and fcc Fe on Cu(100) 192 (1987) L887
Steigerwald, D.A. and P. Wynblatt, Calculation of the anisotropy of equilibrium surface composition in metallic solid solutions using the embedded atom method 193 (1988) 287
Steinfeld, J.I., see Joyce 195 (1988) 270
Stenschke, H., Superfluidity and film formation of ^{4}He on metal surfaces 195 (1988) 133
Stensgaard, I., see Besenbacher 191 (1987) 288
Stepanova, A.N., see Zverkov 200 (1988) 540
Stern, F., see Laux 196 (1988) 101

Stęślicka, M., M. Zagórski and L. Jurczyszyn, Theoretical investigation of image states of hydrogen covered Cu(100) 200 (1988) 209
Stęślicka, M., see Kisiel 200 (1988) 457
Stiles, K., see Duke 197 (1988) 11
Stiles, P.J., see Dabiran 196 (1988) 712
Stöhr, J., see Madix 197 (1988) L253
Stöhr, J., see Comelli 200 (1988) 35
Stoltze, P. and J.K. Nørskov, Comment on 'The application of surface kinetic data to the industrial synthesis of ammonia' by M. Bowker, I. Parker, and K.C. Waugh 197 (1988) L230
Stormer, H.L., see Willett 196 (1988) 257
Stormer, H.L., see Gammel 196 (1988) 417
Stoyanov, S., Layer growth of epitaxial films and superlattices 199 (1988) 226
Strongin, D.R., see Vurens 199 (1988) L387
Strozier, J., see Fan 195 (1988) 226
Sturge, M.D., see Hegarty 196 (1988) 555
Suckling, A.M., see Clark 196 (1988) 219
Sudo, A., see Nakamatsu 194 (1988) 265
Sudou, S., see Wakabayashi 196 (1988) 236
Suëtaka, W., see Wadayama 198 (1988) L359
Sulston, K.W., A.T. Amos and S.G. Davison, Comparative study of approximate theoretical treatments of surface-ion neutralization 197 (1988) 555
Sulston, K.W., see Davison 200 (1988) 265
Sun, D.Z., see Chmielowski 196 (1988) 299
Sun, Y.-Z., see Li 191 (1987) 339
Sun, Y.-Z., see Li 199 (1988) 638
Sundgren, J.-E., see Salaneck 198 (1988) 461
Superfine, R., P. Guyot-Sionnest, J.H. Hunt, C.T. Kao and Y.R. Shen, Surface vibrational spectroscopy of molecular adsorbates on metals and semiconductors by infrared–visible sum-frequency generation 200 (1988) L445
Syphers, D.A. and J.E. Furneaux, Fractional quantum Hall effect in tilted magnetic fields 196 (1988) 252
Szaynok, A.T., see Kuźmiński 200 (1988) 192
Szuber, J., Electronic properties of the polar GaAs(111)As surface 200 (1988) 157
Szymonski, M., see Morgen 197 (1988) 347

Takagahara, T., Enhanced excitonic optical nonlinearity and exciton dynamics in semiconductor microstructures 196 (1988) 590
Takahashi, T., S. Nakatani, T. Ishikawa and S. Kikuta, Surface structure analysis of Si(111)$\sqrt{3} \times \sqrt{3}$-Bi by X-ray diffraction – approach to the solution of the phase problem 191 (1987) L825
Takayanagi, K., see Shimizu 191 (1987) 28
Takayanagi, K., see Yamazaki 199 (1988) 595
Tamura, A., see Kato 194 (1988) L87
Tamura, K., U. Bardi and Y. Nihei, An investigation by angular resolved X-ray photoelectron spectroscopy of strong metal–support interaction (SMSI) in the Pt/TiO_2 system 197 (1988) L281
Tan, H.S., A. Morawski and W.E. Jones, Temperature programmed desorption studies of CO on CdTe(110) 195 (1988) L193
Tan, Y.T., see Baetzold 195 (1988) 579
Tanaka, S., M. Onchi and M. Nishijima, Amino species on the Si(111)(7×7) surface – observation by vibrational EELS 191 (1987) L756

Tanishiro, Y., see Shimizu 191 (1987) 28
Tanishiro, Y., see Yamazaki 199 (1988) 595
Tanuma, S., C.J. Powell and D.R. Penn, Proposed formula for electron inelastic mean free paths based on calculations for 31 materials 192 (1987) L849
Tasker, P.W., see Baetzold 195 (1988) 579
Tatsumi, T., see Hirayama 193 (1988) L47
Tatsuyama, C., see Ishimaru 193 (1988) 193
Taylor, R.P., M.L. Leadbeater, G.P. Whittington, P.C. Main, L. Eaves, S.P. Beaumont, I. McIntyre, S. Thoms and C.D.W. Wilkinson, Universal conductance fluctuations in the magnetoresistance of submicron-size n^+-GaAs wires and laterally confined n^--GaAs/(AlGa)As heterostructures 196 (1988) 52
Tejedor, C., see Calleja 196 (1988) 578
Telieps, W. and E. Bauer, Low energy electron microscopy of surfaces 200 (1988) 512
Terada, T., see Iwami 194 (1988) 115
Thompson, D.L., see Agrawal 195 (1988) 283
Thompson, D.L., see Rice 198 (1988) 360
Thoms, S., see Taylor 196 (1988) 52
Thuraisingham, R.A. and W.J. Meath, Orientationally averaged spectra. An application to molecules adsorbed on a surface 199 (1988) 199
Thurgate, S., see Hitchen 197 (1988) 24
Tikhov, M., see Kiskinova 194 (1988) 379
Tildesley, D.J., see Reynolds 191 (1987) 239
Timofeev, V.B., see Kukushkin 196 (1988) 196
Timp, G., see Chang 196 (1988) 46
Timp, G., A.M. Chang, P. deVegvar, R.E. Howard, R. Behringer, J.E. Cunningham and P. Mankiewich, Quantum transport in one-dimensional GaAs/AlGaAs microstructures 196 (1988) 68
Tobin, J.G., see Benson 193 (1988) L37
Tochihara, H., see Iwami 194 (1988) 115
Toennies, J.P., see Lahee 191 (1987) 529
Toennies, J.P., see Eichenauer 197 (1988) 267
Tognato, R., Some considerations on the interfacial free energies of liquid clusters embedded in a crystal matrix 199 (1988) 282
Toigo, F., see Kim 198 (1988) 555
Tole, P., see Fowler 197 (1988) 457
Tompa, G.S., W.E. Carr and M. Seidl, Work function of metallic surfaces bombarded with cesium ions 198 (1988) 431
Toney, M.F., see Samant 193 (1988) L29
Tonner, B.P., see Li 193 (1988) 10
Tontegode, A.Ya., see Gall 191 (1987) 185
Toombs, G.A., see Payling 196 (1988) 404
Toreis, N., X.E. Verykios, S.M. Khalid and G.B. Bunker, Bulk and surface characterization of supported Ag–Au alloy catalysts 197 (1988) 415
Tosch, St., see Berghaus 193 (1988) 235
Tränkle, G., E. Lach, M. Walther, A. Forchel and G. Weimann, Optical investigation of 2D Mott transitions in GaAs/GaAlAs quantum well structures 196 (1988) 584
Traverse, J., see Mellor 196 (1988) 33
Tringides, M.C. and M.G. Lagally, The use of peak intensity in diffraction measurements of growth kinetics on surfaces 195 (1988) L159

Tro, N.J. and S.M. George, Temperature-programmed spectroscopy for surface kinetic analysis: absorption and laser-induced fluorescence techniques 197 (1988) L246
Tronconi, E. and L. Lietti, An exact single-curve analysis technique for TPD spectra 199 (1988) 43
Trugman, S.A. and F.R. Waugh, Complex scattering dynamics and the integral quantum Hall effect 196 (1988) 171
Trutschel, U., see Schellenberger 192 (1987) 555
Tsai, C.H., see Yang 196 (1988) 487
Tsang, W.T., see Sauer 196 (1988) 388
Tsitsopoulos, L.T., T.T. Tsotsis and I.A. Webster, An ellipsometric investigation of reaction rate oscillations during the electrochemical anodization of Cu in H_3PO_4 solutions. Some preliminary results 191 (1987) 225
Tsong, T.T., see Gao 191 (1987) L787
Tsong, T.T., D.L. Feng and H.M. Liu, Atomic structures in reconstruction of high index surfaces of silicon 199 (1988) 421
Tsong, T.T., H.M. Liu, Q.J. Gao, Y. Liou and D.L. Feng, Atomic structures of silicon and metal surfaces; pulsed-laser TOF atom-probe and field ion microscopy 200 (1988) 220
Tsotsis, T.T., see Tsitsopoulos 191 (1987) 225
Tsuda, H., see Nishijima 192 (1987) 383
Tsui, D.C., see Simmons 196 (1988) 81
Tsui, D.C., see Kane 196 (1988) 183
Tsui, D.C., see Willett 196 (1988) 257
Tsui, D.C., see Chou 196 (1988) 279
Tsukada, M., see Shima 194 (1988) 312
Tu, C.W., see Goldberg 196 (1988) 209
Tucker, P.M., see Hayden 192 (1987) 163
Tully, J.C., see Zinke-Allmang 197 (1988) 1
Tyler, P.S., see Kozlowski 194 (1988) 505
Tysoe, W.T., see Gellman 191 (1987) 271
Tysoe, W.T. and R.M. Lambert, Structure and reactivity at the halogen/metal interface: chemisorption, corrosion and reaction pathways in the Pd(111)–Cl_2 system 199 (1988) 1
Tysoe, W.T., F. Zaera and G.A. Somorjai, An XPS study of the oxidation and reduction of the rhenium–platinum system under atmospheric conditions 200 (1988) 1
Tzeng, C.-C. and J.T. Lue, Second-harmonic generation of light from gold and copper films by total internal reflection 192 (1987) 491

Ueba, H., see Ishimaru 193 (1988) 193
Underhill, P.R., see Hajcsar 191 (1987) 249
Underhill, P.R., An embedded atom calculation of surface segregation in Co–Ni alloys 195 (1988) 557
Underhill, P.R., An investigation of the anomalous surface phonon softening on noble metal ⟨111⟩ surfaces using the embedded atom method 200 (1988) L441
Unger, W., Comment on 'XPS, UPS and AES study of surface segregation and oxidation of Ni–Ru alloy' by M.S. Hegde, T.S. Sampath Kumar and R.M. Mallya 197 (1988) L292
Uno, K., A. Namiki, S. Zaima, T. Nakamura and N. Ohtake, XPS study of the oxidation process of Si(111) via photochemical decomposition of N_2O by an UV excimer laser 193 (1988) 321

Urbach, L.E., see Heskett 197 (1988) 225
Urbaniak-Kucharczyk, A., Calculation of the scanning tunneling microscope image in the case of Cu(100) 200 (1988) 247
Usher, A., see Clark 196 (1988) 219

Valls, O.T., see Farrell 199 (1988) 586
Van Delft, F.C.M.J.M., see Vurens 192 (1987) 438
Van Delft, F.C.M.J.M., A.D. van Langeveld and B.E. Nieuwenhuys, The temperature dependence of the surface composition of Pt–Rh alloys, Surface Science 189/190 (1987) 1129. *Erratum* 193 (1988) 304
Van den Hoek, P.J., T.C.M. Horn and A.W. Kleyn, Classical trajectories harpooning and dissociation for O_2 scattering from Ag(111) 198 (1988) L335
Van der Veen, J.F., see Marée 191 (1987) 305
Van Houten, H., C.W.J. Beenakker, B.J. van Wees and J.E. Mooij, Boundary scattering modified one-dimensional weak localization in submicron GaAs/AlGaAs heterostructures 196 (1988) 144
Van Hove, M.A., see Sowa 199 (1988) 174
Van Langeveld, A.D., see Van Delft 193 (1988) 304
Van Silfhout, A., see Zandvliet 195 (1988) 138
Van Silfhout, A., see Sasse 195 (1988) L167
Van Silfhout, A., see Sasse 199 (1988) 243
Van Wees, B.J., see Van Houten 196 (1988) 144
Varga, P., see Diebold 197 (1988) 430
Vedula, Yu.S., see Naumovets 200 (1988) 321
Venezia, A.M. and C.M. Loxton, Low pressure oxidation of Ni_3Al alloys at elevated temperatures as studied by X-ray photoelectron spectroscopy and Auger spectroscopy 194 (1988) 136
Venus, D., D.A. Hensley and L.L. Kesmodel, High resolution EELS measurements of CO adsorption on Pt/Al_2O_3 model catalysts via impact scattering 199 (1988) 391
Verwoerd, W.S., see Badziag 194 (1988) 535
Verykios, X.E., see Toreis 197 (1988) 415
Vidali, G., see Karimi 191 (1987) L799
Vieren, J.P., see Boebinger 196 (1988) 669
Vilfan, I., see Villain 199 (1988) 165
Villain, J. and I. Vilfan, Surface deconstruction of Au(110) 199 (1988) 165
Viña, L., Spectroscopic studies of excitonic fine structure under electric fields 196 (1988) 569
Viña, L., see Calleja 196 (1988) 578
Vinen, W.F., see Mellor 196 (1988) 33
Vink, T.J., M. Bolech, O.L.J. Gijzeman and J.W. Geus, The reactivity of the graphite overlayer on Fe(110) towards oxygen 194 (1988) 559
Vohs, J.M. and M.A. Barteau, Spectroscopic characterization of surface formates produced via reaction of HCOOH and $HCOOCH_3$ on the (0001) surface of zinc oxide 197 (1988) 109
Voisin, P., see Brum 196 (1988) 545
Von Klitzing, K., see Haug 196 (1988) 242
Von Klitzing, K., see Sigg 196 (1988) 293
Voos, M., see Brum 196 (1988) 512
Voos, M., see Brum 196 (1988) 545
Voos, M., see Boebinger 196 (1988) 669
Vurens, G.H., F.C.M.J.M. van Delft and B.E. Nieuwenhuys, The influence of ordering on the surface composition and surface site distribution of binary alloys as studied with the Monte Carlo method 192 (1987) 438

Vurens, G.H., D.R. Strongin, M. Salmeron and G.A. Somorjai, An ISS and AES study of alkali induced sintering of an iron oxide monolayer adsorbed on Pt(111) 199 (1988) L387

Waag, A., W. Heuring, G. Remenyi, G. Landwehr, E. Bangert, G. Weimann and W. Schlapp, Density of states in a two-dimensional hole gas in high magnetic fields 196 (1988) 328
Wadayama, T., T. Sakurai, S. Ichikawa and W. Suëtaka, Charge-transfer enhancement in infrared absorption of thiocyanate ions adsorbed on a gold electrode in the Kretschmann ATR configuration 198 (1988) L359
Wagner, F.T. and T.E. Moylan, A comparison between water adsorbed on Rh(111) and Pt(111), with and without predosed oxygen 191 (1987) 121
Wagner, F.T., T.E. Moylan and S.J. Schmieg, Hydrophilic versus hydrophobic coadsorption: carbon monoxide and water on Rh(111) versus Pt(111) 195 (1988) 403
Wainer, J.J., A.B. Fowler and R.A. Webb, Magnetic field effects in strongly localized quasi-1D MOSFETs 196 (1988) 134
Wakabayashi, J., S. Sudou, S. Kawaji, K. Hirakawa and H. Sakaki, Effects of the gate bias on the activation energies of the fractional quantum Hall effect 196 (1988) 236
Wakahara, S., see Akera 196 (1988) 694
Wake, D.R., see Oberli 196 (1988) 611
Wallis, R.F., see Black 192 (1987) 541
Wallis, R.F., see Kramer 196 (1988) 355
Walther, M., see Tränkle 196 (1988) 584
Wander, A. and B.W. Holland, The structure of formate on Cu(100) 199 (1988) L403
Wang, G.-C., see Zuo 194 (1988) L77
Wang, Q., T.J. Kinkus and D.G. Ren, A study of the process of field evaporation as Markov chains 197 (1988) 327
Wang, W.I., see Smith, III 196 (1988) 287
Wang, W.I., see Calleja 196 (1988) 578
Wang, Y.R. and C.B. Duke, Surface reconstructions of ZnO cleavage faces 192 (1987) 309
Wang, Y.R., see Duke 197 (1988) 11
Wang, Y.T. and K.C. Lee, The correlation between surface plasma resonance and surface enhanced Raman scattering 197 (1988) 239
Wang, Z.L. and J.M. Cowley, Reflection electron energy loss spectroscopy (REELS): a technique for the study of surfaces 193 (1988) 501
Warkusz, F., Electron scattering at the grain boundaries and at the external surfaces in polycrystalline metal films 200 (1988) 394
Wassermeier, M., see Kotthaus 196 (1988) 600
Wästberg, B. and A. Rosén, Analysis of the position on the $2\pi^*$-derived states for CO adsorbed on the Pt(110) surface 193 (1988) L7
Watanabe, K., D.J.W. Geldart and H.J. Kreuzer, Kinetics of $1 \times 1 \rightarrow 1 \times 5$ surface reconstruction on Ir(100) 192 (1987) 344
Waugh, F.R., see Trugman 196 (1988) 171
Waugh, K.C., see Bowker 197 (1988) L223
Webb, M.B., see Packard 195 (1988) 371
Webb, R.A., see Wainer 196 (1988) 134
Webster, I.A., see Tsitsopoulos 191 (1987) 225
Weimann, G., see Simmons 196 (1988) 81

Weimann, G., see Bliek 196 (1988) 156
Weimann, G., see Meisels 196 (1988) 177
Weimann, G., see Kane 196 (1988) 183
Weimann, G., see Haug 196 (1988) 242
Weimann, G., see Chou 196 (1988) 279
Weimann, G., see Waag 196 (1988) 328
Weimann, G., see Brum 196 (1988) 512
Weimann, G., see Tränkle 196 (1988) 584
Weimann, G., see Abstreiter 196 (1988) 613
Weiss, D., see Sigg 196 (1988) 293
Welland, M.E., see Coombs 198 (1988) L353
Wesner, D.A., F.P. Coenen and H.P. Bonzel, Amplitude anisotropy of the bending vibration of CO adsorbed on Ni(110) 199 (1988) L419
Westerlund, L., L. Jönsson and S. Andersson, Hydrogen recombination and Σ-desorption from the Ni(100)-H-CO coadsorption system 199 (1988) 109
Westland, D.J., D. Mihailovič, J.F. Ryan and M.D. Scott, Time-resolved photoluminescence measurement of carrier trapping time of InGaAs/InP quantum wells 196 (1988) 399
White, J.M., see Greenlief 191 (1987) 93
White, J.M., see Blass 191 (1987) 406
White, J.M., see Mitchell 191 (1987) 425
White, J.M., see Zhou 193 (1988) 387
White, J.M., see Zhou 194 (1988) 438
White, J.M., see Zhu 195 (1988) L145
White, J.M., see Mitchell 197 (1988) 379
Whittington, G.P., see Taylor 196 (1988) 52
Wicks, G., see Mercy 196 (1988) 334
Wiechert, H., see Koort 192 (1987) 187
Wieck, A.D., see Oelting 196 (1988) 273
Wieckowski, A., see Palaikis 199 (1988) 183
Wierzbicki, A. and J.M. Bowman, Vibrational self-consistent field investigation of adsorbate vibrations: coupling of atomic adsorbates to a rigid corrugated surface 191 (1987) 518
Wieting, J., see Militzer 192 (1987) L905
Wieting, J., see Arabczyk 198 (1988) 167
Wieting, J., see Militzer 200 (1988) 342
Wijngaard, J.H., see Segeth 194 (1988) 615
Wilder, J.A., see Frick 193 (1988) 529
Wilen, L. and R. Giannetta, Cyclotron resonance of the 2D electron crystal 196 (1988) 24
Wilkinson, C.D.W., see Taylor 196 (1988) 52
Willett, R., H.L. Stormer, D.C. Tsui, A.C. Gossard, J.H. English and K.W. Baldwin, Fractional quantum Hall effect in extremely high mobility GaAs/(AlGa)As heterostructures 196 (1988) 257
Williams, E.D., see Hwang 193 (1988) L53
Williams, E.D., see Akinci 193 (1988) 534
Williams, E.D., see Phaneuf 195 (1988) 330
Williams, F.I.B., see Glattli 196 (1988) 17
Williams, F.I.B., see Andrei 196 (1988) 501
Williams, G.P., see Sagurton 199 (1988) L413
Williams, K.J., see Levin 195 (1988) 341
Willis, R.F., see Clarke 192 (1987) L843

Wilsch, H., see Ertl 199 (1988) 537
Wilson, J.M., see O'Connor 197 (1988) 277
Winkler, A., see Siddiqui 193 (1988) L17
Wolf, F., see Lehwald 192 (1987) 131
Wolfindale, B., see Bowker 192 (1987) 95
Wöll, Ch., see Lahee 191 (1987) 529
Woltjer, R., Experiments and theory on the quantum Hall effect with inhomogeneous electron density 196 (1988) 188
Woo, K.C., see Cheng 196 (1988) 268
Woo, K.C., S. Rafol and J.P. Faurie, Electronic properties of HgTe/HgCdTe heterojunctions 196 (1988) 665
Woodruff, D.P., D.L. Seymour, C.F. McConville, C.E. Riley, M.D. Crapper, N.P. Prince and R.G. Jones, A simple X-ray standing wave technique for surface structure determination – theory and an application 195 (1988) 237
Worlock, J.M., see Perry 196 (1988) 677
Wouters, P.A.A.F., see Zeijlmans van Emmichoven 195 (1988) 115
Wright, S.L., see Fang 196 (1988) 310
Wright, S.L., see Dabiran 196 (1988) 712
Wu Xiaoguang, see Peeters 196 (1988) 437
Wucher, A. and H. Oechsner, Emission energy dependence of ionization probabilities in secondary ion emission from oxygen covered Ta, Nb and Cu surfaces 199 (1988) 567
Wuttig, M., C. Oshima, T. Aizawa, R. Souda, S. Otani and Y. Ishizawa, Surface phonon dispersion of HfC(100) 192 (1987) 573
Wuttig, M., C. Oshima, T. Aizawa, R. Souda, S. Otani and Y. Ishizawa, Surface phonons of TiC(310) 193 (1988) 180
Wyder, P., see Rikken 196 (1988) 303
Wynblatt, P., see Steigerwald 193 (1988) 287
Wynblatt, P., see Barnard 197 (1988) 363

Xhonneux, P., see Sporken 193 (1988) 47
Xie, L.M., see Yang 196 (1988) 487
Xie Tian-Sheng, see Qu Zhe 194 (1988) L127
Xie, X.C. and S. Das Sarma, Aspects of transport properties of quasi-one-dimensional electron systems 196 (1988) 89
Xu, P., see Sagurton 199 (1988) L413

Yagi, K., see Shimizu 191 (1987) 28
Yagi, K., see Yamazaki 199 (1988) 595
Yakshinskii, B.V., see Ageev 194 (1988) 101
Yamamoto, H., T. Kikuchi and K. Furuya, The primary ion energy dependence of the analyzing depth in SIMS measurements 194 (1988) 217
Yamazaki, K., K. Takayanagi, Y. Tanishiro and K. Yagi, Transmission electron microscope study of the reconstructed Au(001) surface 199 (1988) 595
Yang, K., see Harris 198 (1988) L312
Yang, Q.Y., see Beckerle 195 (1988) 77
Yang, R.Q., X.J. Lu, X.L. Lei, L.M. Xie and C.H. Tsai, Density correlation function of a superlattice with wave function overlap 196 (1988) 487
Yannoulis, P., E.E. Koch and M. Lähdeniemi, Electronic structure and orientation of tetracene on Cu(100) 192 (1987) 299

Yates, Jr., J.T., see Siddiqui 191 (1987) L813
Yates, Jr., J.T., see Dresser 191 (1987) 1
Yates, Jr., J.T., see Lanzillotto 191 (1987) 15
Yates, Jr., J.T., see Albert 192 (1987) 225
Yates, Jr., J.T., see Siddiqui 193 (1988) L17
Yates, Jr., J.T., see Peden 194 (1988) 92
Yates, Jr., J.T., see Chen 194 (1988) 397
Ying, Z. and W. Ho, Thermal and photon induced reactions of CH_3CH_2OH on Si(111)7 × 7 198 (1988) 473
Yoo, H., see Martin 196 (1988) 323
Yoshino, J., see Awschalom 196 (1988) 649
Yoshinobu, J., see Nishijima 192 (1987) 383
Yousif, S.Y. and H.A. Kassim, Anionic dipole polarizabilities at the surfaces of alkaline earth oxides and sulfides 197 (1988) 509

Zaera, F., see Gellman 191 (1987) 271
Zaera, F., D.A. Fischer, S. Shen and J.L. Gland, Fluorescence yield near-edge X-ray absorption spectroscopy under atmospheric conditions: CO and H_2 coadsorption on Ni(100) at pressures between 10^{-9} and 0.1 Torr 194 (1988) 205
Zaera, F., see Tysoe 200 (1988) 1
Zagórski, M., see Stęślicka 200 (1988) 209
Zagórski, M., see Doliński 200 (1988) 361
Zaima, S., see Uno 193 (1988) 321
Zandvliet, H.J.W. and A. van Silfhout, Surface states on clean Ge(111) surfaces 195 (1988) 138
Zecchina, A., D. Scarano, L. Marchese, S. Coluccia and E. Giamello, Defect centres on Mg-doped MgO surfaces 194 (1988) 531
Zecchina, A., see Scarano 198 (1988) 11
Zehner, D.M., see Mundenar 198 (1988) L309
Zeijlmans van Emmichoven, P.A., P.A.A.F. Wouters and A. Niehaus, Angle resolved electron spectra from grazing incidence He^{2+}/Cu(110) collisions 195 (1988) 115
Zeiri, Y., see NoorBatcha 200 (1988) 113
Zeller, R.T., see Dabiran 196 (1988) 712
Zeng Zhi, see Zheng Qing-qi 195 (1988) L173
Zeppenfeld, P., see Kern 195 (1988) 353
Zhdanov, V.P., On the application of LEED to study the dynamics of two-dimensional ordering 194 (1988) L100
Zhdanov, V.P., Diffusion of coadsorbed particles 194 (1988) 1
Zhdanov, V.P., On kinetics of reactions limited by surface diffusion 195 (1988) L217
Zhdanov, V.P., On the phonon mechanism of vibrational relaxation of adsorbed particles 197 (1988) 35
Zheng Qing-qi, Zeng Zhi and Han Rushan, Electronic structures of Ag-adsorbed Si(111) surface 195 (1988) L173
Zhou, W., see Perry 196 (1988) 677
Zhou, X.-L., see Greenlief 191 (1987) 93
Zhou, X.-L., X.-Y. Zhu and J.M. White, A TPD, SIMS and $\Delta\phi$ study of the influence of coadsorbed potassium on the adsorption and decomposition of ethylene on Pt(111) 193 (1988) 387
Zhou, X.-L. and J.M. White, Adsorption and decomposition of methyl halides on Ni(100): a TPD, SIMS and AES study 194 (1988) 438

Zhu, X.-Y., see Zhou 193 (1988) 387
Zhu, X.-Y., S. Akhter, M.E. Castro and J.M. White, Kinetic studies using static SIMS: H_2 adsorption on Ni(100) 195 (1988) L145
Zhuang, W.H., see Chmielowski 196 (1988) 299
Zinke-Allmang, M. and L.C. Feldman, Overlayer energetics from thermal desorption on Si 191 (1987) L749
Zinke-Allmang, M., L.C. Feldman, J.R. Patel and J.C. Tully, The morphology of As terminated Si(111) from desorption kinetics 197 (1988) 1
Zinke-Allmang, M., L.C. Feldman and M.H. Grabow, Thin film morphology: equilibrium between clusters and uniform layers at non-zero temperatures 200 (1988) L427
Zonnevylle, M.C., R. Hoffmann and S. Harris, Thiophene hydrodesulfurization on MoS_2; theoretical aspects 199 (1988) 320
Zotov, A.V., see Korobtsov 195 (1988) 466
Zrenner, A., F. Koch and K. Ploog, Subband physics for a "realistic" δ-doping layer 196 (1988) 671
Zrenner, A., see Perry 196 (1988) 677
Zucker, J.E., E. Isaacs, D. Heiman, A. Pinczuk and D.S. Chemla, Localized quantum well excitons in the high magnetic field limit 196 (1988) 563
Zuo, J.-K. and G.-C. Wang, Defects in a W(112) surface 194 (1988) L77
Zurawski, D., see Palaikis 199 (1988) 183
Zverkov, V.V., A.N. Stepanova, L.N. Obolenskaya and E.I. Givargizov, Field ion microscopy of semiconductor compounds with imaging gas mixtures 200 (1988) 540

SUBJECT INDEX TO VOLUMES 191–200

Acetylene

Ts.S. Marinova and P.K. Stefanov, Adsorption and thermal evolution of acetylene on a Cu(100) surface 191 (1987) 66
M. Nishijima, J. Yoshinobu, H. Tsuda and M. Onchi, The adsorption and thermal decomposition of acetylene on Si(100) and vicinal Si(100)9° 192 (1987) 383
S.-Y. Chu and A.B. Anderson, Acetylene adsorption on Si(111): molecular orbital theory 194 (1988) 55
C.M. Mate, C.-T. Kao, B.E. Bent and G.A. Somorjai, The surface structure and thermal decomposition of acetylene on the Rh(111) single crystal surface and the effect of coadsorbed carbon monoxide 197 (1988) 183

Adatoms, see Chemisorption theory

Adsorption isotherms, see also Chemisorption theory, Physisorption

M. Ehsasi and K. Christmann, The interaction of hydrogen with a rhodium (110) surface 194 (1988) 172

Alkali halides

A.D. Gates and J.L. Robins, Heterogeneous nucleation on cleavage steps. III. Comparison of experiment and theory 191 (1987) 499
A. Wierzbicki and J.M. Bowman, Vibrational self-consistent field investigation of adsorbate vibrations: coupling of atomic adsorbates to a rigid corrugated surface 191 (1987) 518
A. Ishii, Theory of Auger neutralization of He^+ ions on NaCl surfaces due to the local electronic structures 192 (1987) 172
A.D. Gates and J.L. Robins, Cluster mobility calculations for gold particles on (100) NaCl surfaces 194 (1988) 13
M. Elango, A.E. Kiv and A.A. Malkin, Computer simulation of the radiation-induced Coulomb instability of XUV-irradiated alkali halide surfaces 194 (1988) 548
H. Gnaser and I.D. Hutcheon, Preferential emission of lighter isotopes in the initial stage of sputtering 195 (1988) 499
D. Eichenauer and J.P. Toennies, Pairwise additive potential models for the interaction of He atoms with the (001) surfaces of LiF, NaF, NaCl and LiCl 197 (1988) 267
P.W. Fowler and P. Tole, Effects of coordination number on surface ions: an ab initio study of LiF and MgO 197 (1988) 457
I. NoorBatcha, R.R. Lucchese and Y. Zeiri, Anisotropic translational energy distribution due to gas-phase collisions in rapid desorption of molecules from surfaces 200 (1988) 113

S. Sendecki, Photoemission measurements of KCl on Ag(110); adsorption parameters 200 (1988) 280
B. Barwiński, Influence of the dielectric overcoat on the low frequency noise in discontinuous metal films 200 (1988) 403
E. Dobierzewska-Mozrzymas and P. Biegański, Electrical properties of aluminium island films near the percolation threshold 200 (1988) 417
P. Mazur, Potential barrier at the NaCl–Si(111) interface 200 (1988) 454
W. Kisiel, B. Stankiewicz and M. Stęślicka, Interface electronic structure of alkali halide contacts 200 (1988) 457

Alkali metals

C. Benndorf, E. Bertel, V. Dose, W. Jacob, N. Memmel and J. Rogozik, An inverse photoemission study of CO adsorption on clean and potassium promoted Ru(001) 191 (1987) 455
H. Onishi, C. Egawa, T. Aruga and Y. Iwasawa, Adsorption of Na atoms and oxygen-containing molecules on MgO(100) and (111) surfaces 191 (1987) 479
M. Bowker, B. Wolfindale, D.A. King and G. Lamble, The coadsorption of K and Cl on Ag(100): electronic, kinetic and thermodynamic surface modification by promotion 192 (1987) 95
P.J. Kuntz and K. Lacmann, Surface-induced luminescence of alkali atoms 192 (1987) L859
K.C. Prince, Adsorption of potassium on Pb(110) 193 (1988) L24
X.-L. Zhou, X.-Y. Zhu and J.M. White, A TPD, SIMS and $\Delta\phi$ study of the influence of coadsorbed potassium on the adsorption and decomposition of ethylene on Pt(111) 193 (1988) 387
V.N. Ageev, O.P. Burmistrova and B.V. Yakshinskii, Electron-stimulated alkali metal desorption from the oxygen monolayer-covered tungsten surface 194 (1988) 101
G. Pirug and H.P. Bonzel, Ordering of potassium overlayers on Pt(111) 194 (1988) 159
P.H. McBreen, S. Moore, A. Adnot and D. Roy, SIMS study of the interaction of CO and O_2 with K adsorbed on Au 194 (1988) L112
M. Kiskinova and M. Tikhov, Adsorption of CO on Ru(10$\bar{1}$0) doped with different amounts of K and Cs 194 (1988) 379
J. Paul and F.M. Hoffmann, Hydrogen adsorption on alkali modified aluminum 194 (1988) 419
G.A. Benesh and J.R. Hester, Na–Na interactions on Al(001) 194 (1988) 567
S.D. Cameron and D.J. Dwyer, Charge transfer effects on CO bond cleavage: CO and potassium on Fe(100) 198 (1988) 315
G.S. Tompa, W.E. Carr and M. Seidl, Work function of metallic surfaces bombarded with cesium ions 198 (1988) 431
G.H. Vurens, D.R. Strongin, M. Salmeron and G.A. Somorjai, An ISS and AES study of alkali induced sintering of an iron oxide monolayer adsorbed on Pt(111) 199 (1988) L387
H. Onishi, T. Aruga, C. Egawa and Y. Iwasawa, Modification of surface electronic structure on TiO_2(110) and TiO_2(441) by Na deposition 199 (1988) 54
D. Heskett, The interaction range in alkali metal-promoted systems 199 (1988) 67
G. Pirug and H.P. Bonzel, Short range interaction of K and CO coadsorbed on Pt(111) 199 (1988) 371

Alloys

E.E. Hajcsar, P.R. Underhill, W.W. Smeltzer and P.T. Dawson, A determination of the temperature dependence of segregation for a 56 a/o Ni–Co alloy on (111) and (210) faces using AES 191 (1987) 249
R.-S. Li and Y.-Z. Sun, Quantitative Auger electron spectroscopy analysis of the Au–Cu alloys 191 (1987) 339
H.A.C.M. Hendrickx and V. Ponec, Effects of alloying and coadsorption: an IR study 192 (1987) 234
M.S. Spencer, α-brass formation in copper/zinc oxide catalysts. I. Bulk equilibrium concentrations of zinc under methanol synthesis and water–gas shift reaction conditions 192 (1987) 323
M.S. Spencer, α-brass formation in copper/zinc oxide catalysts. II. Diffusion of zinc in copper and α-brass under reaction conditions 192 (1987) 329
M.S. Spencer, α-brass formation in copper/zinc oxide catalysts. III. Surface segregation of zinc in α-brass 192 (1987) 336
G.H. Vurens, F.C.M.J.M. van Delft and B.E. Nieuwenhuys, The influence of ordering on the surface composition and surface site distribution of binary alloys as studied with the Monte Carlo method 192 (1987) 438
A. Hoffman, T. Maniv and M. Folman, A study of O_2 adsorption on α-Cu–Al(100) surfaces of different Al concentrations by means of AES and XPS 193 (1988) 57
S.-P. Jeng, P.H. Holloway and C.D. Batich, Equilibrium surface segregation for Ni–15%Cr(110) 193 (1988) L63
P.A. Dowben, A. Miller, H.-J. Ruppender and M. Grunze, The influence of surface metal composition of Fe–Cr alloys on the dissociative adsorption of N_2 193 (1988) 336
N.Q. Lam and H.A. Hoff, Surface and subsurface composition changes in Ni–Si alloys during elevated-temperature sputtering 193 (1988) 353
R.-S. Li, Temperature dependence of the surface composition changes under Ar ion bombardment of an $Au_{0.5}Cu_{0.5}$ alloy between 30 °C and 700 °C 193 (1988) 373
A.M. Venezia and C.M. Loxton, Low pressure oxidation of Ni_3Al alloys at elevated temperatures as studied by X-ray photoelectron spectroscopy and Auger spectroscopy 194 (1988) 136
D. Fargues, J.J. Ehrhardt, M. Abon and J.C. Bertolini, Photoemission of adsorbed xenon on Pt_xNi_{1-x}(111) single crystal alloy surfaces 194 (1988) 149
Qu Zhe and Xie Tian-Sheng, Auger-ion sputter profiling of some homogeneous binary systems 194 (1988) L127
P.H. McBreen, S. Serghini-Monim, D. Roy and A. Adnot, Decomposition of formic acid on FeTi 195 (1988) L208
P.R. Underhill, An embedded atom calculation of surface segregation in Co–Ni alloys 195 (1988) 557
Q. Wang, T.J. Kinkus and D.G. Ren, A study of the process of field evaporation as Markov chains 197 (1988) 327
W. Unger, Comment on 'XPS, UPS and AES study of surface segregation and oxidation of Ni–Ru alloy' by M.S. Hegde, T.S. Sampath Kumar and R.M. Mallya 197 (1988) L292
M.S. Hegde, Reply to "Comment on 'XPS, UPS and AES study of surface segregation and oxidation of Ni–Ru alloy'" by W. Unger 197 (1988) L294
J.A. Barnard, P. Wynblatt, W.C. Johnson and W.W. Mullins, Surface segregation in solid and liquid Sn–Pb alloys 197 (1988) 363

N. Toreis, X.E. Verykios, S.M. Khalid and G.B. Bunker, Bulk and surface characterization of supported Ag–Au alloy catalysts 197 (1988) 415
D.R. Mullins and S.H. Overbury, The structure and composition of the NiAl(110) and NiAl(100) surfaces 199 (1988) 141
S. Modak and B.C. Khanra, Studies on the effect of surface segregation on hydrocarbon conversion over Cu–Ni alloys 199 (1988) 361
D.A. Asbury and G.B. Hoflund, The influence of annealing and low-pressure oxygen exposure on a sputtered Pt_3Sn alloy surface. III 199 (1988) 552
W.T. Tysoe, F. Zaera and G.A. Somorjai, An XPS study of the oxidation and reduction of the rhenium–platinum system under atmospheric conditions 200 (1988) 1
T.T. Tsong, H.M. Liu, Q.J. Gao, Y. Liou and D.L. Feng, Atomic structures of silicon and metal surfaces; pulsed-laser TOF atom-probe and field ion microscopy 200 (1988) 220
P. Godowski, Surface composition of $Co_{79}Ru_{21}$ alloy contaminated with phosphorus measured by AES 200 (1988) 260
M. Militzer and J. Wieting, Segregation kinetics and surface phase transitions 200 (1988) 342

Alumina, see Aluminium oxide

Aluminium

R.Q. Hwang, E.D. Williams and R.L. Park, Thermal disordering of the $(\sqrt{3} \times \sqrt{3})R30°$ structure of Al on Si(111) 193 (1988) L53
R. Sporken, P. Xhonneux, R. Caudano and J.P. Delrue, The formation of the Al–InSb(110) interface 193 (1988) 47
A. Hoffman, T. Maniv and M. Folman, EELS studies of adsorption of O_2 and NO on Al(100) 193 (1988) 513
B. Frick, K. Jacobi, J.A. Wilder, H.J. Sagner and K.H. Frank, Inverse photoemission of Pd grown on Al(111) 193 (1988) 529
J.G. Chen, P. Basu, L. Ng and J.T. Yates, Jr., A comparative study of the reactivities of H_2O, CH_3OH, and CH_3OCH_3 toward Al(111) 194 (1988) 397
J. Paul and F.M. Hoffmann, Hydrogen adsorption on alkali modified aluminum 194 (1988) 419
G.A. Benesh and J.R. Hester, Na–Na interactions on Al(001) 194 (1988) 567
W.C. Fan, J. Strozier and A. Ignatiev, Island formation of aluminum on the graphite (0001) surface: LEED and AES study 195 (1988) 226
A.M. Chang, G. Timp, T.Y. Chang, J.E. Cunningham, B. Chelluri, P.M. Mankiewich, R.E. Behringer and R.E. Howard, Magneto-quantum transport in a quasi-one-dimensional $GaAs/Al_xGa_{1-x}As$ ring 196 (1988) 46
R.P. Taylor, M.L. Leadbeater, G.P. Whittington, P.C. Main, L. Eaves, S.P. Beaumont, I. McIntyre, S. Thoms and C.D.W. Wilkinson, Universal conductance fluctuations in the magnetoresistance of submicron-size n^+-GaAs wires and laterally confined n^--GaAs/(AlGa)As heterostructures 196 (1988) 52
G. Timp, A.M. Chang, P. deVegvar, R.E. Howard, R. Behringer, J.E. Cunningham and P. Mankiewich, Quantum transport in one-dimensional GaAs/AlGaAs microstructures 196 (1988) 68
M.L. Roukes, A. Scherer, H.G. Craighead, S.J. Allen, Jr., R.M. Ruthen, E.D. Beebe and J.P. Harbison, Transport in ultra-narrow quantum well wires 196 (1988) 79
J.A. Simmons, D.C. Tsui and G. Weimann, Quantum interference effects in high-mobility mesoscopic $GaAs/Al_xGa_{1-x}As$ heterostructures 196 (1988) 81

S.E. Laux, D.J. Frank and F. Stern, Quasi-one-dimensional electron states in a split-gate GaAs/AlGaAs heterostructure 196 (1988) 101
H. van Houten, C.W.J. Beenakker, B.J. van Wees and J.E. Mooij, Boundary scattering modified one-dimensional weak localization in submicron GaAs/AlGaAs heterostructures 196 (1988) 144
L. Bliek, G. Hein, D. Jucknischke, V. Kose, J. Niemeyer, G. Weimann and W. Schlapp, Breakdown of dissipationless quantum Hall conduction in narrow channels 196 (1988) 156
M. D'Iorio, A.S. Sachrajda, D. Landheer, M. Buchanan, T. Moore, C.J. Miner and A.J. Springthorpe, Narrow channel breakdown in GaAs/AlGaAs heterostructures 196 (1988) 165
R. Meisels, F. Kuchar, K.Y. Lim, G. Weimann and W. Schlapp, The intrinsic plateau width and the effect of the sample boundaries on the integral quantum Hall effect in GaAs/AlGaAs 196 (1988) 177
B.E. Kane, D.C. Tsui and G. Weimann, Low frequency noise in the integral quantum Hall effect 196 (1988) 183
B.B. Goldberg, D. Heiman, A. Pinczuk, C.W. Tu, A.C. Gossard and J.H. English, Magneto-optics of the fractional quantum Hall effect 196 (1988) 209
J. Wakabayashi, S. Sudou, S. Kawaji, K. Hirakawa and H. Sakaki, Effects of the gate bias on the activation energies of the fractional quantum Hall effect 196 (1988) 236
R.J. Haug, K. von Klitzing, R.J. Nicholas, J.C. Maan and G. Weimann, The influence of a tilted magnetic field on the fractional quantum Hall effect and the exchange enhancement of the spin splitting 196 (1988) 242
D.A. Syphers and J.E. Furneaux, Fractional quantum Hall effect in tilted magnetic fields 196 (1988) 252
R. Willett, H.L. Stormer, D.C. Tsui, A.C. Gossard, J.H. English and K.W. Baldwin, Fractional quantum Hall effect in extremely high mobility GaAs/(AlGa)As heterostructures 196 (1988) 257
K. Ensslin, D. Heitmann, H. Sigg and K. Ploog, Effects of the filling factor on the cyclotron resonance in gated AlGaAs/GaAs heterostructures 196 (1988) 263
M.J. Chou, D.C. Tsui and G. Weimann, Cyclotron resonance in the extreme quantum limit 196 (1988) 279
T.P. Smith, III, W.I. Wang, F.F. Fang, L.L. Chang, L.S. Kim, T. Pham and H.D. Drew, Magnetotransport and cyclotron resonance in AlAs quantum wells 196 (1988) 287
H. Sigg, D. Weiss and K. von Klitzing, Magnetotransport and cyclotron resonance investigations of the 2D electron gas in e^--beam irradiated AlGaAs/GaAs heterojunctions 196 (1988) 293
M. Chmielowski, M. Gliński, W.H. Zhuang, G.B. Liang, D.Z. Sun, M.Y. Kong, W. Plesiewicz, T. Dietl and T. Skośkiewicz, Fundamental high-field transport properties of a GaAs/AlGaAs modulation doped heterostructure 196 (1988) 299
G.L.J.A. Rikken, P. Wyder, K. Ploog, J.M. Chamberlain, R.T. Grimes and G. Hill, Nanosecond far infra red magnetospectroscopy of GaAs/AlGaAs heterostructures 196 (1988) 303
F.F. Fang, T.P. Smith, III and S.L. Wright, Landau-level broadening and scattering time in modulation doped GaAs/AlGaAs heterostructures 196 (1988) 310
K.P. Martin, R.J. Higgins, J.J.L. Rascol, H. Yoo and J.R. Arthur, Quantum lifetime measurements of the two-dimensional electron gas at the inverted AlGaAs/GaAs interface 196 (1988) 323

A. Waag, W. Heuring, G. Remenyi, G. Landwehr, E. Bangert, G. Weimann and W. Schlapp, Density of states in a two-dimensional hole gas in high magnetic fields 196 (1988) 328
J.-M. Mercy, B.D. McCombe, W. Beard, J. Ralston and G. Wicks, Barrier impurity states in modulation doped AlGaAs/GaAs multi-quantum wells 196 (1988) 334
E. Gornik, W. Seidenbusch, R. Christanell, R. Lassnig and C.R. Pidgeon, Evidence for impurity states close to the 2D gas in GaAs/GaAlAs heterostructures 196 (1988) 339
E.A. de Andrada e Silva, I.C. da Cunha Lima, A. Ferreira da Silva and C.E. Leal, Density of states of electrons bound to impurities in quantum wells of GaAlAs/GaAs 196 (1988) 352
D. Gammon, E. Glaser, B.V. Shanabrook and D. Musser, A spectroscopic study of screening effects in a quasi-two-dimensional system 196 (1988) 359
K. Hirakawa, T. Noda and H. Sakaki, Interface roughness in AlAs/GaAs quantum wells characterized by the mobility of two-dimensional electrons 196 (1988) 365
R. Lassnig, J. Smoliner, W. Boxleitner and E. Gornik, Tunneling study of GaAs/GaAlAs heterostructures 196 (1988) 367
P.J. Price, Tunneling in AlGaAs by Γ–X scattering 196 (1988) 394
C.A. Payling, E.S. Alves, L. Eaves, T.J. Foster, M. Henini, O.H. Hughes, P.E. Simmonds, F.W. Sheard, G.A. Toombs and J.C. Portal, Evidence for sequential tunnelling and charge build-up in double barrier resonant tunnelling devices 196 (1988) 404
P.L. Gammel, D.J. Bishop, J.P. Eisenstein, R.P. Hall, H.L. Stormer, A.C. Gossard and J.H. English, Quantum oscillations in a mechanical resonator containing a two-dimensional electron system 196 (1988) 417
J. Singleton, R.J. Nicholas, D.C. Rogers and C.T.B. Foxon, Cyclotron resonance of electrons in a narrow GaAs/(Ga,Al)As quantum well: polaron effects and non-parabolicity 196 (1988) 429
F.M. Peeters, Wu Xiaoguang and J.T. Devreese, Polaron cyclotron mass in $GaAs/Al_xGa_{1-x}As$ heterostructures 196 (1988) 437
J.P. Eisenstein, A.C. Gossard and V. Narayanamurti, Thermal conductance magneto-oscillations and electron–phonon coupling in GaAs/AlGaAs heterostructures 196 (1988) 445
M.A. Brummell, D.R. Leadley, R.J. Nicholas, J.J. Harris and C.T. Foxon, Competition between LO and TO phonon scattering in GaAs/GaAlAs heterojunctions 196 (1988) 451
M.H. Degani and O. Hipólito, Electron–interface-phonon interaction in GaAs/AlAs and InAs/GaSb heterojunctions 196 (1988) 459
E.Y. Andrei, D.C. Glattli, F.I.B. Williams and M. Heiblum, Low frequency collective excitations in the quantum-Hall system 196 (1988) 501
J.A. Brum, J. Orgonasi, G. Bastard, C. Delalande, M. Voos, G. Weimann and W. Schlapp, Optical properties of one-side modulation-doped quantum wells 196 (1988) 512
J.C. Maan, Magneto-optical properties of superlattices and quantum wells 196 (1988) 518
J.S. Lee, N. Miura and Y. Iwasa, Magneto-optics of n- and p-type modulation-doped $GaAs/Al_xGa_{1-x}As$ quantum wells 196 (1988) 534
J.A. Brum, P. Voisin, M. Voos, L.L. Chang and L. Esaki, Oscillator strengths of interband magneto-optical transitions in strained-layer heterostructures 196 (1988) 545
J. Hegarty and M.D. Sturge, Exciton localisation in quantum well structures 196 (1988) 555
J.E. Zucker, E. Isaacs, D. Heiman, A. Pinczuk and D.S. Chemla, Localized quantum well excitons in the high magnetic field limit 196 (1988) 563

L. Viña, Spectroscopic studies of excitonic fine structure under electric fields 196 (1988) 569
J.M. Calleja, C. López, C. Tejedor, L. Viña, E.E. Méndez, W.I. Wang, M. Staines and M. Cardona, Study of electric field effects on the electronic structure of quantum wells by resonant Raman scattering 196 (1988) 578
G. Tränkle, E. Lach, M. Walther, A. Forchel and G. Weimann, Optical investigation of 2D Mott transitions in GaAs/GaAlAs quantum well structures 196 (1988) 584
J.P. Kotthaus, W. Hansen, H. Pohlmann, M. Wassermeier and K. Ploog, Intersubband resonances in quasi-one-dimensional channels 196 (1988) 600
G. Abstreiter, T. Egeler, S. Beeck, A. Seilmeier, H.J. Hübner, G. Weimann and W. Schlapp, Electronic excitations in narrow GaAs/$Al_xGa_{1-x}As$ quantum well structures 196 (1988) 613
B.B. Goldberg, D. Heiman, A. Pinczuk and A.C. Gossard, Inelastic light scattering of valence subband transitions in GaAs/GaAlAs multiple quantum wells 196 (1988) 619
T.P. Smith, III, H. Munekata, L.L. Chang, F.F. Fang and L. Esaki, Magnetic-field-induced transitions in InAs/$Ga_{1-x}Al_xSb$ heterostructures 196 (1988) 687
H. Akera, S. Wakahara and T. Ando, Connection rule of envelope functions at heterointerface 196 (1988) 694
A.M. Dabiran, R.T. Zeller, F.F. Fang, S.L. Wright and P.J. Stiles, Electrochemical potential oscillations of the two-dimensional electron gas in GaAs/AlGaAs heterostructures in high magnetic fields 196 (1988) 712
R. Bindi, H. Lanteri and P. Rostaing, Transport model of scattering processes of keV electrons in aluminium 197 (1988) 295
R. Superfine, P. Guyot-Sionnest, J.H. Hunt, C.T. Kao and Y.R. Shen, Surface vibrational spectroscopy of molecular adsorbates on metals and semiconductors by infrared–visible sum-frequency generation 200 (1988) L445
J.E. Inglesfield and G.A. Benesh, Bulk and surface states on Al(001) 200 (1988) 135
J. Szuber, Electronic properties of the polar GaAs(111)As surface 200 (1988) 157
E. Dobierzewska-Mozrzymas and P. Biegański, Electrical properties of aluminium island films near the percolation threshold 200 (1988) 417
G. Gergely, Z. Bodó and P. Croce, Determination of the optical constants of metals and semiconductors by combining ellipsometry with electron spectroscopy microscopy and X-ray specular reflection analysis 200 (1988) 527

Aluminium oxide

R. Hornstein, D. Schmeisser, W. Göpel and M. Kunst, Growth of ordered Al_2O_3-(1 × 1) passivation layers on InP(100) 192 (1987) 563
M.E. Levin, K.J. Williams, M. Salmeron, A.T. Bell and G.A. Somorjai, Alumina and titania overlayers on rhodium: a comparison of the chemisorption and catalytic properties 195 (1988) 341
M.E. Levin, M. Salmeron, A.T. Bell and G.A. Somorjai, The characterization of Ti and Al oxide overlayers on rhodium and gold by XPS 195 (1988) 429
N.J. Tro and S.M. George, Temperature-programmed spectroscopy for surface kinetic analysis: absorption and laser-induced fluorescence techniques 197 (1988) L246
D.N. Belton and S. J. Schmieg, Interaction of $[Rh(CO)_2Cl]_2$ with O_2 oxidized Al(100): effect of Al_2O_3 preparation on $[Rh(CO)_2Cl]_2$ decomposition 199 (1988) 518

Ammonia

S. Tanaka, M. Onchi and M. Nishijima, Amino species on the Si(111)(7 × 7) surface – observation by vibrational EELS 191 (1987) L756
M.J. Dresser, A.-M. Lanzillotto, M.D. Alvey and J.T. Yates, Jr., Interaction between NH_3 and CO on the Ni(111) and (110) surfaces: a study by ESDIAD 191 (1987) 1
A.-M. Lanzillotto, M.J. Dresser, M.D. Alvey and J.T. Yates, Jr., The epitaxial formation of adsorbed multilayers as studied by ESDIAD: NH_3 adsorption on top of chemisorbed CO on nickel crystal surfaces 191 (1987) 15
J.A. Rodriguez and C.T. Campbell, A quantum-chemical study of the chemisorption of ammonia, pyridine, formaldehyde, formate, and methoxy on ZnO(0001) 194 (1988) 475
M. Bowker, I. Parker and K.C. Waugh, The application of surface kinetic data to the industrial synthesis of ammonia 197 (1988) L223
P. Stoltze and J.K. Nørskov, Comment on 'The application of surface kinetic data to the industrial synthesis of ammonia' by M. Bowker, I. Parker, and K.C. Waugh 197 (1988) L230
J.A. Rodriguez and C.T. Campbell, A quantum-chemical study of the adsorption of water, formaldehyde and ammonia on copper surfaces and water on ZnO(0001) 197 (1988) 567

Antimony

H. Jorke, Surface segregation of Sb on Si(100) during molecular beam epitaxy growth 193 (1988) 569

Appearance potential spectroscopy

L. Eckertová, Recent development in the appearance potential spectroscopy 200 (1988) 490

Arsenic

M. Zinke-Allmang, L.C. Feldman, J.R. Patel and J.C. Tully, The morphology of As terminated Si(111) from desorption kinetics 197 (1988) 1

Atom scattering

A.M. Lahee, J.P. Toennies and Ch. Wöll, A helium atom scattering study of force constant changes on the Pd(110) surface 191 (1987) 529
E.A. Kurz and J.B. Hudson, The adsorption of H_2 and D_2 on Fe(110). I. Helium scattering as a probe of adsorption 195 (1988) 15
K. Kern, R. David, P. Zeppenfeld and G. Comsa, Registry effects in the thermodynamic quantities of Xe adsorption on Pt(111) 195 (1988) 353
J.R. Manson and G. Armand, Simple approximation to thermal attenuation in low energy atom–surface scattering: multiple phonon processes 195 (1988) 513
R. Kawai and M. Kawai, Theory of the low-energy surface Okorokov excitation for studying excited states of atoms in collision with surfaces 195 (1988) 535

D. Eichenauer and J.P. Toennies, Pairwise additive potential models for the interaction of He atoms with the (001) surfaces of LiF, NaF, NaCl and LiCl 197 (1988) 267
H. Nakanishi, H. Kasai and A. Okiji, Charge exchange scattering of particles from metal surfaces 197 (1988) 515
Z. Sroubek and G. Falcone, Study of dynamical atom–surface interaction in nonideal solids 197 (1988) 528
A. Amirav and M.J. Cardillo, Ion emission due to the scattering of hyperthermal Xe atoms from single crystal surfaces 198 (1988) 192
E.H. Conrad, L.R. Allen, D.L. Blanchard and T. Engel, Energy resolved measurements of the diffuse scattering near the roughening transition of Ni(113) 198 (1988) 207
B.M. Rice, L.M. Raff and D.L. Thompson, Dynamics of chemisorption/scattering of atomic hydrogen on partially covered Si(111) surfaces 198 (1988) 360

Atom–surface interaction potential, see Atom scattering, Surface phonons

Auger ejection, see Auger electron spectroscopy

Auger electron spectroscopy

N.R. Gall, S.N. Mikhailov, E.V. Rut'kov and A.Ya. Tontegode, Carbon interaction with the rhenium surface 191 (1987) 185
E.E. Hajcsar, P.R. Underhill, W.W. Smeltzer and P.T. Dawson, A determination of the temperature dependence of segregation for a 56 a/o Ni–Co alloy on (111) and (210) faces using AES 191 (1987) 249
S. Miura, K. Kato, T. Ide and T. Ichinokawa, Formation of superstructures in Ge-deposited surfaces of Si(110) by annealing 191 (1987) 259
P.M. Blass, S. Akhter and J.M. White, The adsorption and decomposition of benzene on Ni(100) and the effects of pre-adsorbed C, O, H, and CO 191 (1987) 406
H. Kemmann, F. Müller and H. Neddermeyer, AES, LEED and TDS studies of Cu on Si(111)7×7 and Si(100)2×1 192 (1987) 11
M. Bowker, B. Wolfindale, D.A. King and G. Lamble, The coadsorption of K and Cl on Ag(100): electronic, kinetic and thermodynamic surface modification by promotion 192 (1987) 95
K.C. Prince, Adsorption of potassium on Pb(110) 193 (1988) L24
H. Hirayama, T. Tatsumi and N. Aizaki, Reflection high energy electron diffraction and Auger electron spectroscopic study on B/Si(111) surfaces 193 (1988) L47
R. Sporken, P. Xhonneux, R. Caudano and J.P. Delrue, The formation of the Al–InSb(110) interface 193 (1988) 47
A. Hoffman, T. Maniv and M. Folman, A study of O_2 adsorption on α-Cu–Al(100) surfaces of different Al concentrations by means of AES and XPS 193 (1988) 57
S.-P. Jeng, P.H. Holloway and C.D. Batich, Equilibrium surface segregation for Ni–15%Cr(110) 193 (1988) L63
G. Akinci, T.R. Ohno and E.D. Williams, $NiSi_2$ on Si(111). I. Effects of substrate cleaning procedure and reconstruction 193 (1988) 534
V.M. Dwyer and J.A.D. Matthew, Background intensity determination in AES/XPS 193 (1988) 549

F.S. Ohuchi, W. Jaegermann and B.A. Parkinson, XPS investigation of the reaction of $SnS_2(0001)$ with Cu 194 (1988) L69
K. Kato, T. Ide, S. Miura, A. Tamura and T. Ichinokawa, Si(100)$2 \times n$ structures induced by Ni contamination 194 (1988) L87
C.S. Sass and J.W. Rabalais, Chemisorption of carbonyl sulfide (OCS) on Ni between 77 and 293 K 194 (1988) L95
S. Nakanishi and K. Sasaki, Adsorption of sulfur on the iron (001) surface 194 (1988) 245
Qu Zhe and Xie Tian-Sheng, Auger-ion sputter profiling of some homogeneous binary systems 194 (1988) L127
M. Kiskinova and M. Tikhov, Adsorption of CO on Ru(10$\bar{1}$0) doped with different amounts of K and Cs 194 (1988) 379
T.J. Vink, M. Bolech, O.L.J. Gijzeman and J.W. Geus, The reactivity of the graphite overlayer on Fe(110) towards oxygen 194 (1988) 559
X.D. Peng, D.S. Edwards and M.A. Barteau, Reactions of O_2 and H_2O with magnesium nitride films 195 (1988) 103
J.P. Petrakian and P. Renucci, Influence of the depth resolution on the resulting AES profiles of components in multilayer thin film structures 195 (1988) 151
W.C. Fan, J. Strozier and A. Ignatiev, Island formation of aluminum on the graphite (0001) surface: LEED and AES study 195 (1988) 226
A.G.B.M. Sasse, D.G. Lakerveld and A. van Silfhout, The adsorption of nitric oxide on a silicon (100) 2×1 surface studied with Auger electron spectroscopy 195 (1988) L167
M. Delaunay, C. Benazeth, N. Benazeth, R. Geller and C. Mayoral, Electron emission in multiply charged noble gas ion–gold solid target collisions: total and Auger yields 195 (1988) 455
P. Morgen, M. Szymonski, J. Onsgaard, B. Jørgensen and G. Rossi, Formation of the Pt–Si(111) interface 197 (1988) 347
J.A. Barnard, P. Wynblatt, W.C. Johnson and W.W. Mullins, Surface segregation in solid and liquid Sn–Pb alloys 197 (1988) 363
W. Arabczyk, M. Militzer, H.-J. Müssig and J. Wieting, Contribution of pipe diffusion to surface segregation kinetics 198 (1988) 167
M. Kusaka, M. Hirai and M. Iwami, AES and LEELS study of room temperature deposition of Ag on a CdS (air cleaved) substrate 199 (1988) 99
M. Sagurton, P. Xu, R.F. Garrett and G.P. Williams, Determination of the energy of the σ level for CO adsorbed on Ni(001) using both Auger and direct photoemission 199 (1988) L413
D.N. Belton and S. J. Schmieg, Interaction of $[Rh(CO)_2Cl]_2$ with O_2 oxidized Al(100): effect of Al_2O_3 preparation on $[Rh(CO)_2Cl]_2$ decomposition 199 (1988) 518
D.A. Asbury and G.B. Hoflund, The influence of annealing and low-pressure oxygen exposure on a sputtered Pt_3Sn alloy surface. III 199 (1988) 552
J. Szuber, Electronic properties of the polar GaAs(111)As surface 200 (1988) 157
P. Godowski, Surface composition of $Co_{79}Ru_{21}$ alloy contaminated with phosphorus measured by AES 200 (1988) 260
L. Eckertová, T. Jeníček and J. Pavluch, On the information depth of Auger electron appearance potential spectroscopy 200 (1988) 514

Band structure

Y.R. Wang and C.B. Duke, Surface reconstructions of ZnO cleavage faces 192 (1987) 309
G.A. Benesh and J.R. Hester, Na–Na interactions on Al(001) 194 (1988) 567

A. Cassuto, J.J. Ehrhardt, J. Cousty and R. Riwan, Angle-resolved photoemission of xenon adsorbed on Pt(111): the $(\sqrt{3} \times \sqrt{3})R30°$ commensurate layer 194 (1988) 579
T. Mandel, M. Domke and G. Kaindl, Layer-resolved band dispersion of rare-gas multilayers on graphite(001) 197 (1988) 81
P. Masri and L. Dobrzynski, Interface response theory of *N*-layered metallic superlattices 198 (1988) 285
G. Odörfer, E.W. Plummer, H.-J. Freund, H. Kuhlenbeck and M. Neumann, On the electronic structure of the coadsorbate system $CO + O$ (2×1) /Pd(111): a precursor for CO_2 formation 198 (1988) 331
A. Nougaoui and B. Djafari Rouhani, Complex band structure of acoustic waves in superlattices 199 (1988) 623
R. Kalla and J. Pollmann, Bond-angle relaxation and electronic structure of Si and Ge overlayers on (110) surfaces of III-V semiconductors 200 (1988) 80
B.A. Orlowski, Electronic surface states investigated by means of photoemission spectroscopy 200 (1988) 144

Barium

M. Cotter, S. Campbell, R.G. Egdell and W.C. Mackrodt, Growth of ordered BaO overlayers on MgO(001) 197 (1988) 208
C. Astaldi and K. Jacobi, Photoemission from xenon clusters on barium 200 (1988) 15
A.G. Naumovets, V.V. Poplavsky and Yu.S. Vedula, Diffusion and phase transitions in barium monolayers on the (011) plane of tungsten 200 (1988) 321

Barium titanate

R. Souda, T. Aizawa, C. Oshima, S. Otani and Y. Ishizawa, Reionization contributions in low-energy scattering of He, Ne and Ar ions from Sn, Au, and $BaTiO_3$ 194 (1988) L119

Benzene

P.M. Blass, S. Akhter and J.M. White, The adsorption and decomposition of benzene on Ni(100) and the effects of pre-adsorbed C, O, H, and CO 191 (1987) 406
H.J. Koort, K. Knorr and H. Wiechert, Ellipsometric study of the physisorption of benzene on graphite 192 (1987) 187
H.A.C.M. Hendrickx and V. Ponec, Effects of alloying and coadsorption: an IR study 192 (1987) 234
G. Comelli and J. Stöhr, SEXAFS studies of C–C bond lengths in condensed and chemisorbed molecules 200 (1988) 35

Beryllium

G.S. Tompa, W.E. Carr and M. Seidl, Work function of metallic surfaces bombarded with cesium ions 198 (1988) 431

Biological molecules

S.-L. Lee and R.R. Lucchese, Simulation of heavy ion induced desorption of biomolecules from surfaces using the popcorn model 193 (1988) 486

Bismuth

T. Takahashi, S. Nakatani, T. Ishikawa and S. Kikuta, Surface structure analysis of Si(111)$\sqrt{3} \times \sqrt{3}$-Bi by X-ray diffraction – approach to the solution of the phase problem 191 (1987) L825

Boron

H. Hirayama, T. Tatsumi and N. Aizaki, Reflection high energy electron diffraction and Auger electron spectroscopic study on B/Si(111) surfaces 193 (1988) L47

E. Czarnecka-Such and A. Kisiel, Analysis of reflectivity spectra of silicon implanted with 70 keV B, Si, and Ag ions 193 (1988) 221

V.V. Korobtsov, V.G. Lifshits and A.V. Zotov, Formation of Si(111)$\sqrt{3} \times \sqrt{3}$-B and Si epitaxy on Si(111)$\sqrt{3} \times \sqrt{3}$-B: LEED–AES study 195 (1988) 466

Bromine, see Halogens

Cadmium selenide

C.B. Duke, A. Paton, Y.R. Wang, K. Stiles and A. Kahn, Dynamical analysis of low-energy electron diffraction intensities from CdSe(10$\bar{1}$0) 197 (1988) 11

Cadmium sulphide

M. Kusaka, M. Hirai and M. Iwami, AES and LEELS study of room temperature deposition of Ag on a CdS (air cleaved) substrate 199 (1988) 99

Cadmium telluride

H.S. Tan, A. Morawski and W.E. Jones, Temperature programmed desorption studies of CO on CdTe(110) 195 (1988) L193

A.V. Nurmikko, Quasi-two-dimensional excitons in selected II–VI compound semiconductor superlattices: the case of a small valence band offset 196 (1988) 632

D.D. Awschalom, G. Grinstein, J. Yoshino, H. Munekata and L.L. Chang, Dimensional dependence of magnetic susceptibility in dilute magnetic semiconductor superlattices 196 (1988) 649

G.E. Marques, V.A. Chitta, M.H. Degani and O. Hipólito, Bound magnetic polaron in semimagnetic semiconductor heterostructures 196 (1988) 659

K.C. Woo, S. Rafol and J.P. Faurie, Electronic properties of HgTe/HgCdTe heterojunctions 196 (1988) 665

G.S. Boebinger, Y. Guldner, J.P. Vieren, M. Voos and J.P. Faurie, Two-dimensional electron gas in HgCdTe/CdTe heterostructures 196 (1988) 669

B.A. Orlowski, J.P. Lacharme, S. Bensalah and C.A. Sebenne, Electronic properties of cleaved CdTe(110) surfaces 200 (1988) L460

S. Kuźmiński and A.T. Szaynok, Surface photovoltage investigations of $Cd_{1-x}Mn_xTe$ for $x = 0.01$ and 0.10 200 (1988) 192

M. Naparty, A. Dittmar-Wituski and J. Skonieczny, Are EELS and TCS methods complementary? 200 (1988) 519

Carbon, see also Graphite

N.R. Gall, S.N. Mikhailov, E.V. Rut'kov and A.Ya. Tontegode, Carbon interaction with the rhenium surface 191 (1987) 185
P.M. Blass, S. Akhter and J.M. White, The adsorption and decomposition of benzene on Ni(100) and the effects of pre-adsorbed C, O, H, and CO 191 (1987) 406
A. Danon, E. Kolodney and A. Amirav, Dissociation and ionization in hyperthermal 1-iodopropane–diamond scattering 193 (1988) 132
D.R. Mullins and S.H. Overbury, The structure of the carburized W(001) surface 193 (1988) 455
E.D. Fleischmann and J.E. Adams, Dynamics of a Langmuir–Hinshelwood-type recombination reaction 193 (1988) 593
P. Badziag and W.S. Verwoerd, Cluster modelling of the 2×1 chain reconstruction of the diamond (111) surface 194 (1988) 535
K. Broomfield and R.M. Lambert, Model studies of the effects of σ and π hybridisation on the binding of CO to copper surfaces: a CASSCF study of the $^4\Pi$ state of CuCO 195 (1988) L155
R. Lamber, N. Jaeger and G. Schulz-Ekloff, Electron microscopy study of the interaction of Ni, Pd and Pt with carbon. I. Nickel catalyzed graphitization of amorphous carbon 197 (1988) 402

Carbon dioxide

H. Onishi, C. Egawa, T. Aruga and Y. Iwasawa, Adsorption of Na atoms and oxygen-containing molecules on MgO(100) and (111) surfaces 191 (1987) 479
C.T. Au, W. Hirsch and W. Hirschwald, Adsorption of carbon monoxide and carbon dioxide on annealed and defect zinc oxide ($000\bar{1}$) surfaces studied by photoelectron spectroscopy (XPS and UPS) 197 (1988) 391
J.C. Schultz, C.A. Colmenares, J. Naegele and J.C. Spirlet, X-ray photoelectron spectroscopic study of the surface reactions of UFe_2 with O_2, CO and CO_2 198 (1988) 301
C.T. Au, W. Hirsch and W. Hirschwald, Adsorption and interaction of carbon dioxide, formic acid and hydrogen/carbon dioxide mixtures on ($10\bar{1}0$) zinc oxide surfaces studied by photoelectron spectroscopy (XPS and UPS) 199 (1988) 507

Carbon monoxide

H.R. Siddiqui, X. Guo, I. Chorkendorff and J.T. Yates, Jr., CO adsorption site exchange between step and terrace sites on Pt(112) 191 (1987) L813
M.J. Dresser, A.-M. Lanzillotto, M.D. Alvey and J.T. Yates, Jr., Interaction between NH_3 and CO on the Ni(111) and (110) surfaces: a study by ESDIAD 191 (1987) 1
A.-M. Lanzillotto, M.J. Dresser, M.D. Alvey and J.T. Yates, Jr., The epitaxial formation of adsorbed multilayers as studied by ESDIAD: NH_3 adsorption on top of chemisorbed CO on nickel crystal surfaces 191 (1987) 15
J. Bauhofer, M. Hock and J. Küppers, Vibrational spectroscopy of CO at Ni(110): adsorption energy at adsorption sites 191 (1987) 395
P.M. Blass, S. Akhter and J.M. White, The adsorption and decomposition of benzene on Ni(100) and the effects of pre-adsorbed C, O, H, and CO 191 (1987) 406

G.E. Mitchell, M.A. Henderson and J.M. White, The adsorption of PH_3 on Pt(111) and its influence on coadsorbed CO 191 (1987) 425
S. Černý and Z. Pientka, Heat of interaction of carbon monoxide with dysprosium 191 (1987) 449
C. Benndorf, E. Bertel, V. Dose, W. Jacob, N. Memmel and J. Rogozik, An inverse photoemission study of CO adsorption on clean and potassium promoted Ru(001) 191 (1987) 455
D.H. Ehlers, A.P. Esser, A. Spitzer and H. Lüth, Coadsorption of CO with methanol, water and xenon on Pt(111): band suppression in vibrational spectroscopy 191 (1987) 466
B.E. Hayden, A.W. Robinson and P.M. Tucker, IR evidence for the molecular reorientation of linear CO on Pt(110)-(1 × 2) 192 (1987) 163
H.A.C.M. Hendrickx and V. Ponec, Effects of alloying and coadsorption: an IR study 192 (1987) 234
V. Lantto and P. Romppainen, Electrical studies on the reactions of CO with different oxygen species on SnO_2 surfaces 192 (1987) 243
J.E. Houston, C.H.F. Peden, P.J. Feibelman and D.R. Hamann, Analysis of CO–Cu bonding by observation of interface states on Cu/Ru bimetallic surfaces 192 (1987) 457
B. Wästberg and A. Rosén, Analysis of the position on the $2\pi^*$ derived states for CO adsorbed on the Pt(110) surface 193 (1988) L7
W. Reimer, Th. Fink and J. Küppers, Inverse photoemission spectroscopy of H, CO and NO adsorbed at Ni(100) and Ni(111) surfaces 193 (1988) 259
F. Zaera, D.A. Fischer, S. Shen and J.L. Gland, Fluorescence yield near-edge X-ray absorption spectroscopy under atmospheric conditions: CO and H_2 coadsorption on Ni(100) at pressures between 10^{-9} and 0.1 Torr 194 (1988) 205
P.H. McBreen, S. Moore, A. Adnot and D. Roy, SIMS study of the interaction of CO and O_2 with K adsorbed on Au 194 (1988) L112
M. Kiskinova and M. Tikhov, Adsorption of CO on Ru(10$\bar{1}$0) doped with different amounts of K and Cs 194 (1988) 379
C. Egawa and Y. Iwasawa, Adsorption of CO and D_2 on Fe/Ru(001) surface 195 (1988) 43
T.S. Kusuma and A.L. Companion, An EHMO study of the interaction of CO molecules adsorbed on a Ni(111) surface with neighboring CO molecules, H atoms and O atoms 195 (1988) 59
J.D. Beckerle, Q.Y. Yang, A.D. Johnson and S.T. Ceyer, The adsorption of CO and O_2 on Ni(111) at 8 K 195 (1988) 77
G.D. Billing, Laser-assisted molecule–surface collisions 195 (1988) 187
M.E. Levin, K.J. Williams, M. Salmeron, A.T. Bell and G.A. Somorjai, Alumina and titania overlayers on rhodium: a comparison of the chemisorption and catalytic properties 195 (1988) 341
L.J. Richter, T.A. Germer and W. Ho, Coadsorption-induced site changes: bridging hydrogen from CO and H on Rh(100) 195 (1988) L182
H.S. Tan, A. Morawski and W.E. Jones, Temperature programmed desorption studies of CO on CdTe(110) 195 (1988) L193
E.I. Altman and R.J. Gorte, A comparison of the desorption of CO from Pt and Rh particles on α-$Al_2O_3\{0001\}$ 195 (1988) 392
F.T. Wagner, T.E. Moylan and S.J. Schmieg, Hydrophilic versus hydrophobic coadsorption: carbon monoxide and water on Rh(111) versus Pt(111) 195 (1988) 403
D.S. Bethune, A.C. Luntz, J.K. Sass and D.K. Roe, Optical analysis of thin-layer electrochemical cells for infrared spectroscopy of adsorbates 197 (1988) 44

S. Ladas, R. Imbihl and G. Ertl, Microfacetting of a Pt(110) surface during catalytic CO oxidation 197 (1988) 153
C.T. Au, W. Hirsch and W. Hirschwald, Adsorption of carbon monoxide and carbon dioxide on annealed and defect zinc oxide ($000\bar{1}$) surfaces studied by photoelectron spectroscopy (XPS and UPS) 197 (1988) 391
R. Huzimura, H. Kurisu and T. Okuda, Interaction of CO with surface defects of MgO: a high vacuum ESR study 197 (1988) 444
S.A. Jansen and R. Hoffmann, Surface chemistry of transition metal carbides: a theoretical analysis 197 (1988) 474
D.H. Chenery, M.A. Chesters and E.M. McCash, Time resolved Fourier transform reflection–absorption infrared spectroscopy 198 (1988) 1
D. Scarano, A. Zecchina and A. Reller, IR study of CO adsorption on α-Cr_2O_3 198 (1988) 11
R.W. Judd, M.A. Reichelt and R.M. Lambert, Carbon monoxide chemisorption on Pt-dosed W(100): Pt strained overlayers, Pt crystallites and W/Pt surface alloys 198 (1988) 26
S. Ladas, R. Imbihl and G. Ertl, Kinetic oscillations and facetting during the catalytic CO oxidation on Pt(110) 198 (1988) 42
J.C. Schultz, C.A. Colmenares, J. Naegele and J.C. Spirlet, X-ray photoelectron spectroscopic study of the surface reactions of UFe_2 with O_2, CO and CO_2 198 (1988) 301
S.D. Cameron and D.J. Dwyer, Charge transfer effects on CO bond cleavage: CO and potassium on Fe(100) 198 (1988) 315
G. Odörfer, E.W. Plummer, H.-J. Freund, H. Kuhlenbeck and M. Neumann, On the electronic structure of the coadsorbate system CO + O (2×1) /Pd(111): a precursor for CO_2 formation 198 (1988) 331
A.V. Hamza, P.M. Ferm, F. Budde and G. Ertl, The dynamics of NO scattering from NO- and CO-covered Ni(100) 199 (1988) 13
D. Heskett, The interaction range in alkali metal-promoted systems 199 (1988) 67
L. Westerlund, L. Jönsson and S. Andersson, Hydrogen recombination and Σ-desorption from the Ni(100)-H-CO coadsorption system 199 (1988) 109
L. Palaikis, D. Zurawski, M. Hourani and A. Wieckowski, Surface electrochemistry of carbon monoxide adsorbed from electrolytic solutions at single crystal surfaces of Pt(111) and Pt(100) 199 (1988) 183
R.A. Thuraisingham and W.J. Meath, Orientationally averaged spectra. An application to molecules adsorbed on a surface 199 (1988) 199
V.M. Allen, W.E. Jones and P.D. Pacey, A molecular orbital study of carbon monoxide adsorption on a MnO surface 199 (1988) 309
J.-P. Lu, M.R. Albert, S.L. Bernasek and D.J. Dwyer, Adsorption state conversion of CO on Fe(100) 199 (1988) L406
M. Sagurton, P. Xu, R.F. Garrett and G.P. Williams, Determination of the energy of the σ level for CO adsorbed on Ni(001) using both Auger and direct photoemission 199 (1988) L413
D.A. Wesner, F.P. Coenen and H.P. Bonzel, Amplitude anisotropy of the bending vibration of CO adsorbed on Ni(110) 199 (1988) L419
G. Pirug and H.P. Bonzel, Short range interaction of K and CO coadsorbed on Pt(111) 199 (1988) 371
D. Venus, D.A. Hensley and L.L. Kesmodel, High resolution EELS measurements of CO adsorption on Pt/Al_2O_3 model catalysts via impact scattering 199 (1988) 391

Carboxylic acid

P. Hofmann and D. Menzel, Angular-resolved photoemission of formate and methoxy on Cu(110): orientation and orbital assignment using dipole selection rules 191 (1987) 353
H. Onishi, C. Egawa, T. Aruga and Y. Iwasawa, Adsorption of Na atoms and oxygen-containing molecules on MgO(100) and (111) surfaces 191 (1987) 479
F. Solymosi, J. Kiss and I. Kovács, Adsorption of HCOOH on Rh(111) and its reaction with preadsorbed oxygen 192 (1987) 47
H. Onishi, T. Aruga, C. Egawa and Y. Iwasawa, Adsorption of CH_3OH, HCOOH and SO_2 on $TiO_2(110)$ and stepped $TiO_2(441)$ surfaces 193 (1988) 33
P.H. McBreen, S. Serghini-Monim, D. Roy and A. Adnot, Decomposition of formic acid on FeTi 195 (1988) L208
J.M. Vohs and M.A. Barteau, Spectroscopic characterization of surface formates produced via reaction of HCOOH and $HCOOCH_3$ on the (0001) surface of zinc oxide 197 (1988) 109
A. Wander and B.W. Holland, The structure of formate on Cu(100) 199 (1988) L403
C.T. Au, W. Hirsch and W. Hirschwald, Adsorption and interaction of carbon dioxide, formic acid and hydrogen/carbon dioxide mixtures on $(10\bar{1}0)$ zinc oxide surfaces studied by photoelectron spectroscopy (XPS and UPS) 199 (1988) 507

Catalysis

A.E. Reynolds, D.J.Tildesley and J.S. Foord, Geometric effects in the control of catalytic selectivity by surface additives: Monte Carlo simulation studies 191 (1987) 239
M.R. Albert and J.T. Yates, Jr., Evidence for a surface vacancy requirement in the formation of ethylidyne from ethylene on Pd particles 192 (1987) 225
H.A.C.M. Hendrickx and V. Ponec, Effects of alloying and coadsorption: an IR study 192 (1987) 234
M.S. Spencer, α-brass formation in copper/zinc oxide catalysts. I. Bulk equilibrium concentrations of zinc under methanol synthesis and water–gas shift reaction conditions 192 (1987) 323
M.S. Spencer, α-brass formation in copper/zinc oxide catalysts. II. Diffusion of zinc in copper and α-brass under reaction conditions 192 (1987) 329
M.S. Spencer, α-brass formation in copper/zinc oxide catalysts. III. Surface segregation of zinc in α-brass 192 (1987) 336
E.D. Fleischmann and J.E. Adams, Dynamics of a Langmuir–Hinshelwood-type recombination reaction 193 (1988) 593
E.I. Altman and R.J. Gorte, A comparison of the desorption of CO from Pt and Rh particles on α-$Al_2O_3\{0001\}$ 195 (1988) 392
M. Bowker, I. Parker and K.C. Waugh, The application of surface kinetic data to the industrial synthesis of ammonia 197 (1988) L223
P. Stoltze and J.K. Nørskov, Comment on 'The application of surface kinetic data to the industrial synthesis of ammonia' by M. Bowker, I. Parker, and K.C. Waugh 197 (1988) L230

K. Tamura, U. Bardi and Y. Nihei, An investigation by angular resolved X-ray photoelectron spectroscopy of strong metal–support interaction (SMSI) in the Pt/TiO_2 system 197 (1988) L281
N. Toreis, X.E. Verykios, S.M. Khalid and G.B. Bunker, Bulk and surface characterization of supported Ag–Au alloy catalysts 197 (1988) 415
C. Egawa and Y. Iwasawa, Ethane hydrogenolysis on a Ru(1,1,10) surface 198 (1988) L329
S.G. Davison, S.M. Bose and K.W. Sulston, Chemisorption on supported-metal catalysts 200 (1988) 265

Cerium, see Lanthanides

Cesium, see Alkali metals

Chemisorption theory

M. Karimi and G. Vidali, Long range interaction between hydrogen and rare gas atoms with surfaces of III–V semiconductors 191 (1987) L799
B. Wästberg and A. Rosén, Analysis of the position on the $2\pi^*$ derived states for CO adsorbed on the Pt(110) surface 193 (1988) L7
S.-Y. Chu and A.B. Anderson, Acetylene adsorption on Si(111): molecular orbital theory 194 (1988) 55
S.G. Chung and T.F. George, Theory of low-temperature adsorption 194 (1988) 347
J.A. Rodriguez and C.T. Campbell, A quantum-chemical study of the chemisorption of ammonia, pyridine, formaldehyde, formate, and methoxy on ZnO(0001) 194 (1988) 475
K. Broomfield and R.M. Lambert, Model studies of the effects of σ and π hybridisation on the binding of CO to copper surfaces: a CASSCF study of the $^4\Pi$ state of CuCO 195 (1988) L155
T.S. Kusuma and A.L. Companion, An EHMO study of the interaction of CO molecules adsorbed on a Ni(111) surface with neighboring CO molecules, H atoms and O atoms 195 (1988) 59
C. Girard and C. Girardet, Substrate-mediated interactions between adsorbed atoms and molecules – a discrete solid theory 195 (1988) 173
Zheng Qing-qi, Zeng Zhi and Han Rushan, Electronic structures of Ag-adsorbed Si(111) surface 195 (1988) L173
S.A. Jansen and R. Hoffmann, Surface chemistry of transition metal carbides: a theoretical analysis 197 (1988) 474
J.A. Rodriguez and C.T. Campbell, A quantum-chemical study of the adsorption of water, formaldehyde and ammonia on copper surfaces and water on ZnO(0001) 197 (1988) 567
J. Rubio, J.M. López Sancho, M.C. Refolio and M.P. López Sancho, The dynamic form factor of a one-level adsorbate: cluster–Bethe lattice approach in configuration space 199 (1988) 297
V.M. Allen, W.E. Jones and P.D. Pacey, A molecular orbital study of carbon monoxide adsorption on a MnO surface 199 (1988) 309
M.C. Zonnevylle, R. Hoffmann and S. Harris, Thiophene hydrodesulfurization on MoS_2; theoretical aspects 199 (1988) 320
S. Modak and B.C. Khanra, Studies on the effect of surface segregation on hydrocarbon conversion over Cu–Ni alloys 199 (1988) 361
A. Wander and B.W. Holland, The structure of formate on Cu(100) 199 (1988) L403

S.G. Davison, S.M. Bose and K.W. Sulston, Chemisorption on supported-metal catalysts 200 (1988) 265

Chlorine, see Halogens

Chromium

A.J. Melmed and N.D. Shinn, Nucleation and epitaxial growth of Cr crystals on stepped W surfaces with low-index facets 193 (1988) 475
L. Eckertová, T. Jeníček and J. Pavluch, On the information depth of Auger electron appearance potential spectroscopy 200 (1988) 514

Clusters

A.D. Gates and J.L. Robins, Heterogeneous nucleation on cleavage steps. III. Comparison of experiment and theory 191 (1987) 499
R. Kuwabara, H. Adachi and T. Morimoto, Calculation of the electronic structure of the polar ZnO(000$\bar{1}$) surface by the DV-Xα cluster method 193 (1988) 271
A.D. Gates and J.L. Robins, Cluster mobility calculations for gold particles on (100) NaCl surfaces 194 (1988) 13
P. Badziag and W.S. Verwoerd, Cluster modelling of the 2×1 chain reconstruction of the diamond (111) surface 194 (1988) 535
T. Halicioglu, Fluxional nature of gas-phase clusters 197 (1988) L233
R. Tognato, Some considerations on the interfacial free energies of liquid clusters embedded in a crystal matrix 199 (1988) 282
J.E. Farrell and O.T. Valls, Phenomenological model for the growth of small metallic clusters on a substrate 199 (1988) 586
M. Zinke-Allmang, L.C. Feldman and M.H. Grabow, Thin film morphology: equilibrium between clusters and uniform layers at non-zero temperatures 200 (1988) L427

Cobalt

E.M. Gullikson, A.P. Mills, Jr. and J.M. Phillips, Electron and positron work functions of cobalt silicide 195 (1988) L150

Conductivity

V. Lantto and P. Romppainen, Electrical studies on the reactions of CO with different oxygen species on SnO_2 surfaces 192 (1987) 243
K. Kajita, Nonlinear transport phenomena of crystallized electrons formed on liquid helium film 196 (1988) 29
P.A. Lee, Conductance fluctuations in small devices 196 (1988) 43
D. Pooke, R. Mottahedeh, M. Pepper and A. Gundlach, Quantum transport in narrow Si accumulation layers 196 (1988) 59
J.A. Simmons, D.C. Tsui and G. Weimann, Quantum interference effects in high-mobility mesoscopic GaAs/$Al_xGa_{1-x}As$ heterostructures 196 (1988) 81
X.C. Xie and S. Das Sarma, Aspects of transport properties of quasi-one-dimensional electron systems 196 (1988) 89
S.B. Kaplan, Structure in the rectifying behavior of mesoscopic Si MOSFETs 196 (1988) 93

J.J. Wainer, A.B. Fowler and R.A. Webb, Magnetic field effects in strongly localized quasi-1D MOSFETs 196 (1988) 134
P.N. Butcher and J.A. McInnes, Numerical and percolation studies of Ohmic variable-range hopping in 1D 196 (1988) 139
P.W. Adams and M.A. Paalanen, Localization effects in a non-degenerate 2DEG 196 (1988) 150
T.P. Smith, III, H. Munekata, L.L. Chang, F.F. Fang and L. Esaki, Magnetic-field-induced transitions in InAs/$Ga_{1-x}Al_xSb$ heterostructures 196 (1988) 687
A.V. Chaplik and A.O. Govorov, Nonequilibrium charge spreading in two-dimensional electron systems 196 (1988) 719
F. Warkusz, Electron scattering at the grain boundaries and at the external surfaces in polycrystalline metal films 200 (1988) 394
B. Barwiński, Influence of the dielectric overcoat on the low frequency noise in discontinuous metal films 200 (1988) 403
M. Błażej, E. Dobierzewska-Mozrzymas and J. Peisert, Conduction model including some fundamental conduction mechanisms for a discontinuous metal film on a dielectric substrate 200 (1988) 408
E. Dobierzewska-Mozrzymas and P. Biegański, Electrical properties of aluminium island films near the percolation threshold 200 (1988) 417

Copper

V.M. Castaño and W. Krakow, Observation of the epitaxy, oxidation and surface structure of copper on thin gold films by high resolution electron microscopy 191 (1987) 45
Ts.S. Marinova and P.K. Stefanov, Adsorption and thermal evolution of acetylene on a Cu(100) surface 191 (1987) 66
L.T. Tsitsopoulos, T.T. Tsotsis and I.A. Webster, An ellipsometric investigation of reaction rate oscillations during the electrochemical anodization of Cu in H_3PO_4 solutions. Some preliminary results 191 (1987) 225
S.M. Foiles, Ordered surface phases of Au on Cu 191 (1987) 329
P. Hofmann and D. Menzel, Angular-resolved photoemission of formate and methoxy on Cu(110): orientation and orbital assignment using dipole selection rules 191 (1987) 353
A. Clarke, P.J. Rous, M. Arnott, G. Jennings and R.F. Willis, Thickness dependent relaxations in γ fcc Fe films on Cu(001): a LEED structural study 192 (1987) L843
H. Kemmann, F. Müller and H. Neddermeyer, AES, LEED and TDS studies of Cu on Si(111)7×7 and Si(100)2×1 192 (1987) 11
D.A. Steigerwald and W.F. Egelhoff, Jr., Observation of intensity oscillations in RHEED during the epitaxial growth of Cu and fcc Fe on Cu(100) 192 (1987) L887
P. Yannoulis, E.E. Koch and M. Lähdeniemi, Electronic structure and orientation of tetracene on Cu(100) 192 (1987) 299
F. Jona, Results of an international LEED intensity project. I. Reproducibility of experimental spectra 192 (1987) 398
F. Jona, P. Jiang and P.M. Marcus, Results of an international LEED intensity project. II. Evaluation of structural parameters 192 (1987) 414
J.E. Houston, C.H.F. Peden, P.J. Feibelman and D.R. Hamann, Analysis of CO–Cu bonding by observation of interface states on Cu/Ru bimetallic surfaces 192 (1987) 457

C.-C. Tzeng and J.T. Lue, Second-harmonic generation of light from gold and copper films by total internal reflection 192 (1987) 491
F.S. Ohuchi, W. Jaegermann and B.A. Parkinson, XPS investigation of the reaction of SnS_2(0001) with Cu 194 (1988) L69
C.H.F. Peden, D.W. Goodman, J.E. Houston and J.T. Yates, Jr., Subsurface hydrogen on Ru(0001): quantification by Cu titration 194 (1988) 92
H. Yamamoto, T. Kikuchi and K. Furuya, The primary ion energy dependence of the analyzing depth in SIMS measurements 194 (1988) 217
K. Broomfield and R.M. Lambert, Model studies of the effects of σ and π hybridisation on the binding of CO to copper surfaces: a CASSCF study of the $^4\Pi$ state of CuCO 195 (1988) L155
D. Heskett, A. Baddorf and E.W. Plummer, Nitrogen-induced reconstruction of Cu(110): formation of a surface nitride 195 (1988) 94
P.A. Zeijlmans van Emmichoven, P.A.A.F. Wouters and A. Niehaus, Angle resolved electron spectra from grazing incidence He^{2+}/Cu(110) collisions 195 (1988) 115
W. Radlik and H. Neddermeyer, UV photoemission study of the system Cu on Si(100)2×1 195 (1988) 195
D.P. Woodruff, D.L. Seymour, C.F. McConville, C.E. Riley, M.D. Crapper, N.P. Prince and R.G. Jones, A simple X-ray standing wave technique for surface structure determination – theory and an application 195 (1988) 237
J.C. Boulliard and M.P. Sotto, Structural study of segregated sulphur on the stepped faces associated with Cu(100) 195 (1988) 255
Y. Darici, J. Marcano, H. Min and P.A. Montano, LEED measurements of one monolayer of iron epitaxially grown on Cu(111) 195 (1988) 566
G. Hitchen and S. Thurgate, Azimuthal angular dependence of LEED fine structure from Cu(001) 197 (1988) 24
J.A. Rodriguez and C.T. Campbell, A quantum-chemical study of the adsorption of water, formaldehyde and ammonia on copper surfaces and water on ZnO(0001) 197 (1988) 567
K. Prabhakaran and C.N.R. Rao, Comment on 'Oxygen chemisorption on Cu(110)' by J.M. Mundenar, A.P. Baddorf, E.W. Plummer, L.G. Sneddon, R.A. DiDio and D.M. Zehner 198 (1988) L307
J.M. Mundenar, E.W. Plummer, L.G. Sneddon, A.P. Baddorf, D.M. Zehner and G.R. Gruzalski, Reply to "Comment on 'Oxygen chemisorption on Cu(110)'" by K. Prabhakaran and C.N.R. Rao 198 (1988) L309
J. Harris, T. Rahman and K. Yang, A mechanism for vibrational excitation in associative desorption 198 (1988) L312
D.H. Chenery, M.A. Chesters and E.M. McCash, Time resolved Fourier transform reflection–absorption infrared spectroscopy 198 (1988) 1
N.L. Liu, B.H. Choi and X. Shen, Selective adsorption of H_2 + Cu(001) surface. I. A quasiclassical trajectory study 198 (1988) 79
B.H. Choi, N.L. Liu and X. Shen, Selective adsorption of H_2 + Cu(001) surface. II. Quantum mechanical calculation of quasibound compound states 198 (1988) 99
M.A. Karolewski and R.G. Cavell, An ion-induced crystal current study of clean, sulphided and oxidized Cu(100) 198 (1988) 118
A. Wander and B.W. Holland, The structure of formate on Cu(100) 199 (1988) L403
A. Wucher and H. Oechsner, Emission energy dependence of ionization probabilities in secondary ion emission from oxygen covered Ta, Nb and Cu surfaces 199 (1988) 567
G. Comelli and J. Stöhr, SEXAFS studies of C–C bond lengths in condensed and chemisorbed molecules 200 (1988) 35

M. Stęślicka, M. Zagórski and L. Jurczyszyn, Theoretical investigation of image states of hydrogen covered Cu(100) 200 (1988) 209
A. Urbaniak-Kucharczyk, Calculation of the scanning tunneling microscope image in the case of Cu(100) 200 (1988) 247
J. Kołaczkiewicz, Measurement of work function changes as a research method for structural phase transitions in adsorbate islands: Cu/Mo(011) 200 (1988) 335
W. Doliński, S. Mróz and M. Zagórski, Determination of the inelastic mean free path of electrons in silver and copper by measurement and calculation of the elastic scattering coefficient 200 (1988) 361
A. Bukaluk, M. Rozwadowski and R. Siuda, Preliminary results on Cu diffusion through grain boundaries of thin ion-plated Ag–Sn films 200 (1988) 381

Cyanogen

J.S. Somers, M.E. Kordesch, R. Hemmen, Th. Lindner, H. Conrad and A.M. Bradshaw, An angle-resolved photoemission investigation of CN, HCN and C_2N_2 adsorbed on Pd{111} using synchrotron radiation 198 (1988) 400

Cyclotron resonance studies

L. Wilen and R. Giannetta, Cyclotron resonance of the 2D electron crystal 196 (1988) 24
C.J. Mellor, C.M. Muirhead, J. Traverse and W.F. Vinen, The search for crystallization of a two-dimensional pool of ions trapped below the surface of superfluid ^{4}He 196 (1988) 33
K. Ensslin, D. Heitmann, H. Sigg and K. Ploog, Effects of the filling factor on the cyclotron resonance in gated AlGaAs/GaAs heterostructures 196 (1988) 263
J.-P. Cheng, N.C. Jarosik, B.D. McCombe and K.C. Woo, Cyclotron resonance of electrons in Si n-inversion layers at low densities: many-body effects or localization? 196 (1988) 268
S. Oelting, A.D. Wieck, E. Batke and U. Merkt, Cyclotron masses of inversion electrons in tilted magnetic fields 196 (1988) 273
M.J. Chou, D.C. Tsui and G. Weimann, Cyclotron resonance in the extreme quantum limit 196 (1988) 279
T.P. Smith, III, W.I. Wang, F.F. Fang, L.L. Chang, L.S. Kim, T. Pham and H.D. Drew, Magnetotransport and cyclotron resonance in AlAs quantum wells 196 (1988) 287
H. Sigg, D. Weiss and K. von Klitzing, Magnetotransport and cyclotron resonance investigations of the 2D electron gas in e^--beam irradiated AlGaAs/GaAs heterojunctions 196 (1988) 293
E. Gornik, W. Seidenbusch, R. Christanell, R. Lassnig and C.R. Pidgeon, Evidence for impurity states close to the 2D gas in GaAs/GaAlAs heterostructures 196 (1988) 339
J. Singleton, R.J. Nicholas, D.C. Rogers and C.T.B. Foxon, Cyclotron resonance of electrons in a narrow GaAs/(Ga,Al)As quantum well: polaron effects and non-parabolicity 196 (1988) 429
F.M. Peeters, Wu Xiaoguang and J.T. Devreese, Polaron cyclotron mass in $GaAs/Al_xGa_{1-x}As$ heterostructures 196 (1988) 437

Deuterium

F. Besenbacher, I. Stensgaard and K. Mortensen, Adsorption position of deuterium on the Pd(100) surface determined with transmission channeling 191 (1987) 288
N. Matsunami, Y. Hasebe and N. Itoh, Determination of the absolute cross section of electron-stimulated-desorption of deuterium from Si(111) 192 (1987) 27
D.A. Harrington and P.R. Norton, Activated adsorption of deuterium on Ni(110): evidence for a high temperature desorption state 195 (1988) L135
E.A. Kurz and J.B. Hudson, The adsorption of H_2 and D_2 on Fe(110). I. Helium scattering as a probe of adsorption 195 (1988) 15
E.A. Kurz and J.B. Hudson, The adsorption of H_2 and D_2 on Fe(110). II. Angle resolved thermal desorption spectroscopy and kinetic mechanism 195 (1988) 31
C. Egawa and Y. Iwasawa, Adsorption of CO and D_2 on Fe/Ru(001) surface 195 (1988) 43
J.-W. He and P.R. Norton, Fractional-order desorption of D_2 from a Pd(110) surface 195 (1988) L199
J. Harris, T. Rahman and K. Yang, A mechanism for vibrational excitation in associative desorption 198 (1988) L312
J.-W. He, D.A. Harrington, K. Griffiths and P.R. Norton, The interaction of hydrogen with a Pd(100) surface 198 (1988) 413

Dielectric constant

S.Y. Yousif and H.A. Kassim, Anionic dipole polarizabilities at the surfaces of alkaline earth oxides and sulfides 197 (1988) 509

Diffusion

C. Ocal and S. Ferrer, Low temperature diffusion of Pt and Au atoms through thin TiO_2 films on a Ti substrate 191 (1987) 147
M.S. Spencer, α-brass formation in copper/zinc oxide catalysts. II. Diffusion of zinc in copper and α-brass under reaction conditions 192 (1987) 329
V.V. Korobtsov, V.G. Lifshits and A.V. Zotov, Formation of Si(111)$\sqrt{3} \times \sqrt{3}$-B and Si epitaxy on Si(111)$\sqrt{3} \times \sqrt{3}$-B: LEED–AES study 195 (1988) 466
M. Menon and R.E. Allen, Dynamics of chemisorption and indiffusion at semiconductor surfaces 197 (1988) L237
W. Korneta and Z. Pytel, Random walk near the surface 200 (1988) 374
A. Bukaluk, M. Rozwadowski and R. Siuda, Preliminary results on Cu diffusion through grain boundaries of thin ion-plated Ag–Sn films 200 (1988) 381

Dimethyl ether, see Organic substances

Electron diffraction, see also Low energy electron diffraction

P.M.J. Marée, K. Nakagawa, F.M. Mulders, J.F. van der Veen and K.L. Kavanagh, Thin epitaxial Ge–Si(111) films: study and control of morphology 191 (1987) 305
D.A. Steigerwald and W.F. Egelhoff, Jr., Observation of intensity oscillations in RHEED during the epitaxial growth of Cu and fcc Fe on Cu(100) 192 (1987) L887

A. Ichimiya, RHEED intensity analysis of Si(111)7 × 7 at one-beam condition 192 (1987) L893
H. Hirayama, T. Tatsumi and N. Aizaki, Reflection high energy electron diffraction and Auger electron spectroscopic study on B/Si(111) surfaces 193 (1988) L47
M.G. Knibb and P.A. Maksym, The effect of reconstruction on RHEED intensities for the GaAs(001)2 × 4 surface 195 (1988) 475
N. Floquet and O. Bertrand, Onset of oxidation of the non-stoichiometric molybdenum oxide $Mo_{18}O_{52}$(100) surface at low temperatures: a study by RHEED 198 (1988) 449
L.-M. Peng and J.M. Cowley, A multislice approach to the RHEED and REM calculation 199 (1988) 609

Electron ejection, see Electron scattering

Electron emission

C. Palacio, J.M. Sanz and J.M. Martinez-Duart, Low energy electron emission and EELS of clean and oxidised zirconium 191 (1987) 385
P.A. Zeijlmans van Emmichoven, P.A.A.F. Wouters and A. Niehaus, Angle resolved electron spectra from grazing incidence He^{2+}/Cu(110) collisions 195 (1988) 115
M. Delaunay, C. Benazeth, N. Benazeth, R. Geller and C. Mayoral, Electron emission in multiply charged noble gas ion–gold solid target collisions: total and Auger yields 195 (1988) 455
J.M. Goodkind, G.F. Saville, A.E. Ruckenstein and P.M. Platzman, Escape rates of electrons from the surface of liquid helium 196 (1988) 38
M. Delaunay, R. Geller, J. Debernardi, P. Ludwig and P. Sortais, Electron emission from a metal surface bombarded by highly charged ions 197 (1988) L273
M.A. Karolewski and R.G. Cavell, An ion-induced crystal current study of clean, sulphided and oxidized Cu(100) 198 (1988) 118
Ch. Kleint, Electron emission noise 200 (1988) 472

Electron loss spectroscopy

S. Tanaka, M. Onchi and M. Nishijima, Amino species on the Si(111)(7 × 7) surface – observation by vibrational EELS 191 (1987) L756
A. Ichimiya and S. Mizuno, RHEED intensity analysis of Si(111)7 × 7-H surface 191 (1987) L765
Ts.S. Marinova and P.K. Stefanov, Adsorption and thermal evolution of acetylene on a Cu(100) surface 191 (1987) 66
F.T. Wagner and T.E. Moylan, A comparison between water adsorbed on Rh(111) and Pt(111), with and without predosed oxygen 191 (1987) 121
B. Schleich, D. Schmeisser and W. Göpel, Structure and reactivity of the system Si/SiO_2/Pd: a combined XPS, UPS and HREELS study 191 (1987) 367
C. Palacio, J.M. Sanz and J.M. Martinez-Duart, Low energy electron emission and EELS of clean and oxidised zirconium 191 (1987) 385
J. Bauhofer, M. Hock and J. Küppers, Vibrational spectroscopy of CO at Ni(110): adsorption energy at adsorption sites 191 (1987) 395
G.E. Mitchell, M.A. Henderson and J.M. White, The adsorption of PH_3 on Pt(111) and its influence on coadsorbed CO 191 (1987) 425

K. Saiki, Y. Sato, K. Ando and A. Koma, In-situ observation of defect formation in CaF_2(111) surfaces induced by low energy electron bombardment 192 (1987) 1
F. Solymosi, J. Kiss and I. Kovács, Adsorption of HCOOH on Rh(111) and its reaction with preadsorbed oxygen 192 (1987) 47
S. Lehwald, F. Wolf, H. Ibach, B.M. Hall and D.L. Mills, Surface vibrations on Ni(110): the role of surface stress 192 (1987) 131
Ts.S. Marinova and D.V. Chakarov, Adsorption of ethylene on Ir(111) 192 (1987) 275
M. Nishijima, J. Yoshinobu, H. Tsuda and M. Onchi, The adsorption and thermal decomposition of acetylene on Si(100) and vicinal Si(100)9° 192 (1987) 383
J.K.N. Sharma, B.R. Chakraborty, S.M. Shivaprasad and J. Cazaux, Deep-level core-electron loss studies on silicon surface 193 (1988) L58
M. Wuttig, C. Oshima, T. Aizawa, R. Souda, S. Otani and Y. Ishizawa, Surface phonons of TiC(310) 193 (1988) 180
N. Ishimaru, H. Ueba and C. Tatsuyama, Initial stage of heteroepitaxy of Ge on Si(111)-7 × 7 and (100)-2 × 1 surfaces studied by low-energy electron-loss spectroscopy (LEELS) 193 (1988) 193
Z.L. Wang and J.M. Cowley, Reflection electron energy loss spectroscopy (REELS): a technique for the study of surfaces 193 (1988) 501
A. Hoffman, T. Maniv and M. Folman, EELS studies of adsorption of O_2 and NO on Al(100) 193 (1988) 513
M.L. Burke and R.J. Madix, SO_2 structure and reactivity on clean and sulfur modified Pd(100) 194 (1988) 223
M. Kiskinova and M. Tikhov, Adsorption of CO on Ru(10$\bar{1}$0) doped with different amounts of K and Cs 194 (1988) 379
J.G. Chen, P. Basu, L. Ng and J.T. Yates, Jr., A comparative study of the reactivities of H_2O, CH_3OH, and CH_3OCH_3 toward Al(111) 194 (1988) 397
J. Paul and F.M. Hoffmann, Hydrogen adsorption on alkali modified aluminum 194 (1988) 419
D. Heskett, A. Baddorf and E.W. Plummer, Nitrogen-induced reconstruction of Cu(110): formation of a surface nitride 195 (1988) 94
T. Bornemann, A. Otto, K.H. Frank and B. Reihl, On the optical properties of coldly deposited silver films: comparison of EELS and reflectivity spectra 195 (1988) 161
L.J. Richter, T.A. Germer and W. Ho, Coadsorption-induced site changes: bridging hydrogen from CO and H on Rh(100) 195 (1988) L182
F.T. Wagner, T.E. Moylan and S.J. Schmieg, Hydrophilic versus hydrophobic coadsorption: carbon monoxide and water on Rh(111) versus Pt(111) 195 (1988) 403
V.P. Zhdanov, On the phonon mechanism of vibrational relaxation of adsorbed particles 197 (1988) 35
C.M. Mate, C.-T. Kao, B.E. Bent and G.A. Somorjai, The surface structure and thermal decomposition of acetylene on the Rh(111) single crystal surface and the effect of coadsorbed carbon monoxide 197 (1988) 183
G.E. Mitchell, M.A. Schulz and J.M. White, The reaction of H_2S with adsorbed oxygen atoms on platinum (111) 197 (1988) 379
U. Diebold, A. Preisinger, P. Schattschneider and P. Varga, Angle resolved electron energy loss spectroscopy on graphite 197 (1988) 430
J.T. Roberts and C.M. Friend, Vibrational studies of 1-propanethiol on Mo(110). Spectroscopic evidence for low temperature thiolate formation 198 (1988) L321
Z. Ying and W. Ho, Thermal and photon induced reactions of CH_3CH_2OH on Si(111)7 × 7 198 (1988) 473

T. Inaoka, Dielectric response of a degenerate polar semiconductor surface 198 (1988) 491
D. Heskett, The interaction range in alkali metal-promoted systems 199 (1988) 67
M. Kusaka, M. Hirai and M. Iwami, AES and LEELS study of room temperature deposition of Ag on a CdS (air cleaved) substrate 199 (1988) 99
L. Westerlund, L. Jönsson and S. Andersson, Hydrogen recombination and Σ-desorption from the Ni(100)-H-CO coadsorption system 199 (1988) 109
G. Pirug and H.P. Bonzel, Short range interaction of K and CO coadsorbed on Pt(111) 199 (1988) 371
D. Venus, D.A. Hensley and L.L. Kesmodel, High resolution EELS measurements of CO adsorption on Pt/Al_2O_3 model catalysts via impact scattering 199 (1988) 391
N. Aoto, E. Ikawa and Y. Kurogi, Low-energy electron energy loss spectroscopy of Cl adsorbed Si(111), Si(100) and Si(110) surfaces 199 (1988) 408
P.K. Stefanov and Ts.S. Marinova, HREELS study of the interaction of oxygen with a Mo(111) surface 200 (1988) 26
Ts.S. Marinova and D.V. Chakarov, Hydrogen isotope exchange in a coverage obtained on Ir(111) by ethylene adsorption 200 (1988) 309
M. Naparty, A. Dittmar-Wituski and J. Skonieczny, Are EELS and TCS methods complementary? 200 (1988) 519

Electron microscopy

N. Shimizu, Y. Tanishiro, K. Takayanagi and K. Yagi, On the vacancy formation and diffusion on the Si(111)7 × 7 surfaces under exposures of low oxygen pressure studied by in situ reflection electron microscopy 191 (1987) 28
V.M. Castaño and W. Krakow, Observation of the epitaxy, oxidation and surface structure of copper on thin gold films by high resolution electron microscopy 191 (1987) 45
S. Iijima and T. Ichihashi, Grain boundary migration in small gold particles 192 (1987) L872
Z.L. Wang and J.M. Cowley, Reflection electron energy loss spectroscopy (REELS): a technique for the study of surfaces 193 (1988) 501
M.R. Kozlowski, P.S. Tyler, W.H. Smyrl and R.T. Atanasoski, Photoelectrochemical microscopy of oxide films on metals: Ti/TiO_2 interface 194 (1988) 505
R. Lamber, N. Jaeger and G. Schulz-Ekloff, Electron microscopy study of the interaction of Ni, Pd and Pt with carbon. I. Nickel catalyzed graphitization of amorphous carbon 197 (1988) 402
N. Toreis, X.E. Verykios, S.M. Khalid and G.B. Bunker, Bulk and surface characterization of supported Ag–Au alloy catalysts 197 (1988) 415
N. Floquet and O. Bertrand, Onset of oxidation of the non-stoichiometric molybdenum oxide $Mo_{18}O_{52}$(100) surface at low temperatures: a study by RHEED 198 (1988) 449
K. Yamazaki, K. Takayanagi, Y. Tanishiro and K. Yagi, Transmission electron microscope study of the reconstructed Au(001) surface 199 (1988) 595
L.-M. Peng and J.M. Cowley, A multislice approach to the RHEED and REM calculation 199 (1988) 609
J.-O. Malm and J.-O. Bovin, Real time imaging of moving atom columns on surfaces of gold crystals 200 (1988) 67
W. Telieps and E. Bauer, Low energy electron microscopy of surfaces 200 (1988) 512

Electron scattering

S. Tanuma, C.J. Powell and D.R. Penn, Proposed formula for electron inelastic mean free paths based on calculations for 31 materials 192 (1987) L849
M. Lindroos, H. Pfnür and D. Menzel, Investigation of a disordered adsorption system by electron reflection: H/Ru(001) at intermediate coverages 192 (1987) 421
R. Bindi, H. Lanteri and P. Rostaing, Transport model of scattering processes of keV electrons in aluminium 197 (1988) 295
M.F. Hochella, Jr. and A.H. Carim, A reassessment of electron escape depths in silicon and thermally grown silicon dioxide thin films 197 (1988) L260
Z.-J. Ding and R. Shimizu, Monte Carlo study of backscattering and secondary electron generation 197 (1988) 539
P.J. Jennings, A new method for studying the interaction of positrons with metal surfaces 198 (1988) 180
W. Doliński, S. Mróz and M. Zagórski, Determination of the inelastic mean free path of electrons in silver and copper by measurement and calculation of the elastic scattering coefficient 200 (1988) 361

Electron spectroscopy, see Auger electron spectroscopy, Electron loss spectroscopy, Photoelectron spectroscopy

Electron spin resonance

A. Zecchina, D. Scarano, L. Marchese, S. Coluccia and E. Giamello, Defect centres on Mg-doped MgO surfaces 194 (1988) 531
R. Huzimura, H. Kurisu and T. Okuda, Interaction of CO with surface defects of MgO: a high vacuum ESR study 197 (1988) 444

Electron stimulated desorption

M.J. Dresser, A.-M. Lanzillotto, M.D. Alvey and J.T. Yates, Jr., Interaction between NH_3 and CO on the Ni(111) and (110) surfaces: a study by ESDIAD 191 (1987) 1
A.-M. Lanzillotto, M.J. Dresser, M.D. Alvey and J.T. Yates, Jr., The epitaxial formation of adsorbed multilayers as studied by ESDIAD: NH_3 adsorption on top of chemisorbed CO on nickel crystal surfaces 191 (1987) 15
N. Matsunami, Y. Hasebe and N. Itoh, Determination of the absolute cross section of electron-stimulated-desorption of deuterium from Si(111) 192 (1987) 27
R.G. Egdell, S. Eriksen and W.R. Flavell, A spectroscopic study of electron and ion beam reduction of SnO_2(110) 192 (1987) 265
C. Benndorf and T.E. Madey, Adsorption of H_2O on clean and oxygen-predosed Ni(110) 194 (1988) 63
V.N. Ageev, O.P. Burmistrova and B.V. Yakshinskii, Electron-stimulated alkali metal desorption from the oxygen monolayer-covered tungsten surface 194 (1988) 101
A. Klekamp, H. Donnerberg, W. Heiland and K.J. Snowdon, Electron bombardment induced desorption of oxygen from $LiNbO_3$ 200 (1988) L465

Ellipsometry

L.T. Tsitsopoulos, T.T. Tsotsis and I.A. Webster, An ellipsometric investigation of reaction rate oscillations during the electrochemical anodization of Cu in H_3PO_4 solutions. Some preliminary results 191 (1987) 225
H.J. Koort, K. Knorr and H. Wiechert, Ellipsometric study of the physisorption of benzene on graphite 192 (1987) 187
G. Quentel, M. Gauch and A. Degiovanni, In situ ellipsometry studies of the growth of Pb on Si(111) surfaces 193 (1988) 212
H.J.W. Zandvliet and A. van Silfhout, Surface states on clean Ge(111) surfaces 195 (1988) 138
T. Easwarakhanthan, C. Michel and S. Ravelet, Numerical method for the ellipsometric determination of optical constants and thickness of thin films with microcomputers 197 (1988) 339
G. Gergely, Z. Bodó and P. Croce, Determination of the optical constants of metals and semiconductors by combining ellipsometry with electron spectroscopy microscopy and X-ray specular reflection analysis 200 (1988) 527

Emission, see Electron emission, Field ion microscopy

Epitaxy

P.M.J. Marée, K. Nakagawa, F.M. Mulders, J.F. van der Veen and K.L. Kavanagh, Thin epitaxial Ge–Si(111) films: study and control of morphology 191 (1987) 305
D.A. Steigerwald and W.F. Egelhoff, Jr., Observation of intensity oscillations in RHEED during the epitaxial growth of Cu and fcc Fe on Cu(100) 192 (1987) L887
H. Li and B.P. Tonner, A LEED study of the structure of epitaxial Pb/Ge(111) monolayers and ultra-thin films 193 (1988) 10
H. Jorke, Surface segregation of Sb on Si(100) during molecular beam epitaxy growth 193 (1988) 569
V.V. Korobtsov, V.G. Lifshits and A.V. Zotov, Formation of Si(111)$\sqrt{3} \times \sqrt{3}$-B and Si epitaxy on Si(111)$\sqrt{3} \times \sqrt{3}$-B: LEED–AES study 195 (1988) 466
S.A. Barnett and A. Rockett, Monte Carlo simulations of Si(001) growth and reconstruction during molecular beam epitaxy 198 (1988) 133
D.W. Brenner and B.J. Garrison, Microscopic mechanisms of reactions associated with silicon MBE: a molecular dynamics investigation 198 (1988) 151
E.G. Michel, M.C. Asensio and S. Ferrer, Epitaxy of Pt on Au(001): growth mode, interface state and Pt core-level shifts 198 (1988) L365
S. Stoyanov, Layer growth of epitaxial films and superlattices 199 (1988) 226
R. Altsinger, H. Busch, M. Horn and M. Henzler, Nucleation and growth during molecular beam epitaxy (MBE) of Si on Si(111) 200 (1988) 235

Ethane

C. Egawa and Y. Iwasawa, Ethane hydrogenolysis on a Ru(1,1,10) surface 198 (1988) L329

Ethanol

J.L. Davis and M.A. Barteau, The influence of oxygen on the selectivity of alcohol conversion on the Pd(111) surface 197 (1988) 123

Z. Ying and W. Ho, Thermal and photon induced reactions of CH_3CH_2OH on Si(111)7 × 7 198 (1988) 473

Ethylene

C.M. Greenlief, P.L. Radloff, X.-L. Zhou and J.M. White, The formation and decomposition kinetics of ethylidyne on Ru(0001) 191 (1987) 93
M.R. Albert and J.T. Yates, Jr., Evidence for a surface vacancy requirement in the formation of ethylidyne from ethylene on Pd particles 192 (1987) 225
Ts.S. Marinova and D.V. Chakarov, Adsorption of ethylene on Ir(111) 192 (1987) 275
X.-L. Zhou, X.-Y. Zhu and J.M. White, A TPD, SIMS and $\Delta\phi$ study of the influence of coadsorbed potassium on the adsorption and decomposition of ethylene on Pt(111) 193 (1988) 387
Ts.S. Marinova and D.V. Chakarov, Hydrogen isotope exchange in a coverage obtained on Ir(111) by ethylene adsorption 200 (1988) 309

Faceting

J.C. Boulliard and M.P. Sotto, Structural study of segregated sulphur on the stepped faces associated with Cu(100) 195 (1988) 255
S. Ladas, R. Imbihl and G. Ertl, Microfacetting of a Pt(110) surface during catalytic CO oxidation 197 (1988) 153
S. Ladas, R. Imbihl and G. Ertl, Kinetic oscillations and facetting during the catalytic CO oxidation on Pt(110) 198 (1988) 42

Field desorption

N. Shima and M. Tsukada, Microscopic theory of the field induced desorption 194 (1988) 312

Field effect

H.J.W. Zandvliet and A. van Silfhout, Surface states on clean Ge(111) surfaces 195 (1988) 138

Field emission, see also Field emission microscopy, Field ion microscopy

T. Radoń and S. Jaskóła, Photofield emission spectroscopy of electronic states near the Fermi level of ⟨111⟩ tungsten 200 (1988) 199
R. Błaszczyszyn and M. Błaszczyszynowa, Diffusion of nickel on the (110) region of a tungsten field emitter 200 (1988) 354
Ch. Kleint, Electron emission noise 200 (1988) 472
F.I. Dalidchik and N.N. Kolchenko, Resonance field emission for ordered and disordered adsorption of atoms 200 (1988) 536

Field emission microscopy, see also Field emission

A.J. Melmed and N.D. Shinn, Nucleation and epitaxial growth of Cr crystals on stepped W surfaces with low-index facets 193 (1988) 475
N. Ernst, Field enhanced adsorption 200 (1988) 275

Field evaporation, see also Field emission

Q. Wang, T.J. Kinkus and D.G. Ren, A study of the process of field evaporation as Markov chains 197 (1988) 327

Field ion microscopy, see also Field emission

Q.J. Gao and T.T. Tsong, Atomic structures of epitaxial overlayers of bcc Fe on fcc Rh surfaces 191 (1987) L787
G.L. Kellogg, The mobility and structure of nickel atoms on the (100) plane of tungsten 192 (1987) L879
W.A. Schmidt, A.J. Melmed, M.F. Lovisa, M. Naschitzki and J.H. Block, Field-ion energy spectroscopy of gold overlayers on silicon 194 (1988) 127
T.T. Tsong, D.L. Feng and H.M. Liu, Atomic structures in reconstruction of high index surfaces of silicon 199 (1988) 421
T.T. Tsong, H.M. Liu, Q.J. Gao, Y. Liou and D.L. Feng, Atomic structures of silicon and metal surfaces; pulsed-laser TOF atom-probe and field ion microscopy 200 (1988) 220
V.V. Zverkov, A.N. Stepanova, L.N. Obolenskaya and E.I. Givargizov, Field ion microscopy of semiconductor compounds with imaging gas mixtures 200 (1988) 540

Formaldehyde, see Organic substances

Formic acid, see Carboxylic acid

Gallium

M. Zinke-Allmang and L.C. Feldman, Overlayer energetics from thermal desorption on Si 191 (1987) L749
K. Jacobi, Work-function changes and photoemission final-state relaxation of Ne, Ar, Kr, Xe, H_2 and N_2 on gallium 192 (1987) 499
K.L. Carleton, B. Bourguignon and S.R. Leone, Desorption of a two-state system: laser probing of gallium atom spin–orbit states from silicon (100) 199 (1988) 447

Gallium antimonide

J.C. Maan, Magneto-optical properties of superlattices and quantum wells 196 (1988) 518
J.A. Brum, P. Voisin, M. Voos, L.L. Chang and L. Esaki, Oscillator strengths of interband magneto-optical transitions in strained-layer heterostructures 196 (1988) 545
S. Lamari and L.J. Sham, Theory of magneto-optical properties in narrow-gap semiconductor quantum wells 196 (1988) 551
D.L. Smith and C. Mailhiot, Strained type II superlattices 196 (1988) 683
T.P. Smith, III, H. Munekata, L.L. Chang, F.F. Fang and L. Esaki, Magnetic-field-induced transitions in $InAs/Ga_{1-x}Al_xSb$ heterostructures 196 (1988) 687
R. Kalla and J. Pollmann, Bond-angle relaxation and electronic structure of Si and Ge overlayers on (110) surfaces of III-V semiconductors 200 (1988) 80
J. Sánchez-Dehesa, F. Flores, J. Ortega and J.D. Dow, Schottky barrier formation in defect-free metal/III–V semiconductor junctions 200 (1988) 424

Gallium arsenide

K. Cho and Y. Miyamoto, Polarization-dependent angular distribution of resonant photoemission from GaAs(110) surface core exciton 192 (1987) L835
R. Reineke and R. Memming, High barrier GaAs/metal Schottky junctions produced by electrochemical metal deposition 192 (1987) 66
W. Ranke, H.J. Kuhr and J. Finster, Orientation and temperature dependent adsorption of H_2S on GaAs: valence band photoemission 192 (1987) 81
M.G. Knibb and P.A. Maksym, The effect of reconstruction on RHEED intensities for the GaAs(001)2×4 surface 195 (1988) 475
H. Gnaser and I.D. Hutcheon, Preferential emission of lighter isotopes in the initial stage of sputtering 195 (1988) 499
A.M. Chang, G. Timp, T.Y. Chang, J.E. Cunningham, B. Chelluri, P.M. Mankiewich, R.E. Behringer and R.E. Howard, Magneto-quantum transport in a quasi-one-dimensional GaAs/$Al_xGa_{1-x}As$ ring 196 (1988) 46
R.P. Taylor, M.L. Leadbeater, G.P. Whittington, P.C. Main, L. Eaves, S.P. Beaumont, I. McIntyre, S. Thoms and C.D.W. Wilkinson, Universal conductance fluctuations in the magnetoresistance of submicron-size n^+-GaAs wires and laterally confined n^--GaAs/(AlGa)As heterostructures 196 (1988) 52
G. Timp, A.M. Chang, P. deVegvar, R.E. Howard, R. Behringer, J.E. Cunningham and P. Mankiewich, Quantum transport in one-dimensional GaAs/AlGaAs microstructures 196 (1988) 68
M.L. Roukes, A. Scherer, H.G. Craighead, S.J. Allen, Jr., R.M. Ruthen, E.D. Beebe and J.P. Harbison, Transport in ultra-narrow quantum well wires 196 (1988) 79
J.A. Simmons, D.C. Tsui and G. Weimann, Quantum interference effects in high-mobility mesoscopic GaAs/$Al_xGa_{1-x}As$ heterostructures 196 (1988) 81
S.E. Laux, D.J. Frank and F. Stern, Quasi-one-dimensional electron states in a split-gate GaAs/AlGaAs heterostructure 196 (1988) 101
H. van Houten, C.W.J. Beenakker, B.J. van Wees and J.E. Mooij, Boundary scattering modified one-dimensional weak localization in submicron GaAs/AlGaAs heterostructures 196 (1988) 144
L. Bliek, G. Hein, D. Jucknischke, V. Kose, J. Niemeyer, G. Weimann and W. Schlapp, Breakdown of dissipationless quantum Hall conduction in narrow channels 196 (1988) 156
M. D'Iorio, A.S. Sachrajda, D. Landheer, M. Buchanan, T. Moore, C.J. Miner and A.J. Springthorpe, Narrow channel breakdown in GaAs/AlGaAs heterostructures 196 (1988) 165
R. Meisels, F. Kuchar, K.Y. Lim, G. Weimann and W. Schlapp, The intrinsic plateau width and the effect of the sample boundaries on the integral quantum Hall effect in GaAs/AlGaAs 196 (1988) 177
B.E. Kane, D.C. Tsui and G. Weimann, Low frequency noise in the integral quantum Hall effect 196 (1988) 183
B.B. Goldberg, D. Heiman, A. Pinczuk, C.W. Tu, A.C. Gossard and J.H. English, Magneto-optics of the fractional quantum Hall effect 196 (1988) 209
J. Wakabayashi, S. Sudou, S. Kawaji, K. Hirakawa and H. Sakaki, Effects of the gate bias on the activation energies of the fractional quantum Hall effect 196 (1988) 236
R.J. Haug, K. von Klitzing, R.J. Nicholas, J.C. Maan and G. Weimann, The influence of a tilted magnetic field on the fractional quantum Hall effect and the exchange enhancement of the spin splitting 196 (1988) 242

D.A. Syphers and J.E. Furneaux, Fractional quantum Hall effect in tilted magnetic fields 196 (1988) 252
R. Willett, H.L. Stormer, D.C. Tsui, A.C. Gossard, J.H. English and K.W. Baldwin, Fractional quantum Hall effect in extremely high mobility GaAs/(AlGa)As heterostructures 196 (1988) 257
K. Ensslin, D. Heitmann, H. Sigg and K. Ploog, Effects of the filling factor on the cyclotron resonance in gated AlGaAs/GaAs heterostructures 196 (1988) 263
S. Oelting, A.D. Wieck, E. Batke and U. Merkt, Cyclotron masses of inversion electrons in tilted magnetic fields 196 (1988) 273
M.J. Chou, D.C. Tsui and G. Weimann, Cyclotron resonance in the extreme quantum limit 196 (1988) 279
T.P. Smith, III, W.I. Wang, F.F. Fang, L.L. Chang, L.S. Kim, T. Pham and H.D. Drew, Magnetotransport and cyclotron resonance in AlAs quantum wells 196 (1988) 287
H. Sigg, D. Weiss and K. von Klitzing, Magnetotransport and cyclotron resonance investigations of the 2D electron gas in e^--beam irradiated AlGaAs/GaAs heterojunctions 196 (1988) 293
M. Chmielowski, M. Gliński, W.H. Zhuang, G.B. Liang, D.Z. Sun, M.Y. Kong, W. Plesiewicz, T. Dietl and T. Skośkiewicz, Fundamental high-field transport properties of a GaAs/AlGaAs modulation doped heterostructure 196 (1988) 299
G.L.J.A. Rikken, P. Wyder, K. Ploog, J.M. Chamberlain, R.T. Grimes and G. Hill, Nanosecond far infra red magnetospectroscopy of GaAs/AlGaAs heterostructures 196 (1988) 303
F.F. Fang, T.P. Smith, III and S.L. Wright, Landau-level broadening and scattering time in modulation doped GaAs/AlGaAs heterostructures 196 (1988) 310
K.P. Martin, R.J. Higgins, J.J.L. Rascol, H. Yoo and J.R. Arthur, Quantum lifetime measurements of the two-dimensional electron gas at the inverted AlGaAs/GaAs interface 196 (1988) 323
A. Waag, W. Heuring, G. Remenyi, G. Landwehr, E. Bangert, G. Weimann and W. Schlapp, Density of states in a two-dimensional hole gas in high magnetic fields 196 (1988) 328
J.-M. Mercy, B.D. McCombe, W. Beard, J. Ralston and G. Wicks, Barrier impurity states in modulation doped AlGaAs/GaAs multi-quantum wells 196 (1988) 334
E. Gornik, W. Seidenbusch, R. Christanell, R. Lassnig and C.R. Pidgeon, Evidence for impurity states close to the 2D gas in GaAs/GaAlAs heterostructures 196 (1988) 339
E.A. de Andrada e Silva, I.C. da Cunha Lima, A. Ferreira da Silva and C.E. Leal, Density of states of electrons bound to impurities in quantum wells of GaAlAs/GaAs 196 (1988) 352
D. Gammon, E. Glaser, B.V. Shanabrook and D. Musser, A spectroscopic study of screening effects in a quasi-two-dimensional system 196 (1988) 359
K. Hirakawa, T. Noda and H. Sakaki, Interface roughness in AlAs/GaAs quantum wells characterized by the mobility of two-dimensional electrons 196 (1988) 365
R. Lassnig, J. Smoliner, W. Boxleitner and E. Gornik, Tunneling study of GaAs/GaAlAs heterostructures 196 (1988) 367
R. Sauer, T.D. Harris and W.T. Tsang, Photoluminescence and photoluminescence excitation study of electron–hole tunneling in $In_{0.53}Ga_{0.47}As$/InP coupled-single quantum wells 196 (1988) 388
P.J. Price, Tunneling in AlGaAs by Γ–X scattering 196 (1988) 394

D.J. Westland, D. Mihailovič, J.F. Ryan and M.D. Scott, Time-resolved photoluminescence measurement of carrier trapping time of InGaAs/InP quantum wells 196 (1988) 399
C.A. Payling, E.S. Alves, L. Eaves, T.J. Foster, M. Henini, O.H. Hughes, P.E. Simmonds, F.W. Sheard, G.A. Toombs and J.C. Portal, Evidence for sequential tunnelling and charge build-up in double barrier resonant tunnelling devices 196 (1988) 404
P.L. Gammel, D.J. Bishop, J.P. Eisenstein, R.P. Hall, H.L. Stormer, A.C. Gossard and J.H. English, Quantum oscillations in a mechanical resonator containing a two-dimensional electron system 196 (1988) 417
M. Babiker, M.P. Chamberlain, A. Ghosal and B.K. Ridley, A new resonance phenomenon associated with electron transitions in superlattices and single quantum wells 196 (1988) 422
J. Singleton, R.J. Nicholas, D.C. Rogers and C.T.B. Foxon, Cyclotron resonance of electrons in a narrow GaAs/(Ga,Al)As quantum well: polaron effects and non-parabolicity 196 (1988) 429
F.M. Peeters, Wu Xiaoguang and J.T. Devreese, Polaron cyclotron mass in $GaAs/Al_xGa_{1-x}As$ heterostructures 196 (1988) 437
J.P. Eisenstein, A.C. Gossard and V. Narayanamurti, Thermal conductance magneto-oscillations and electron–phonon coupling in GaAs/AlGaAs heterostructures 196 (1988) 445
M.A. Brummell, D.R. Leadley, R.J. Nicholas, J.J. Harris and C.T. Foxon, Competition between LO and TO phonon scattering in GaAs/GaAlAs heterojunctions 196 (1988) 451
M.H. Degani and O. Hipólito, Electron–interface-phonon interaction in GaAs/AlAs and InAs/GaSb heterojunctions 196 (1988) 459
E.Y. Andrei, D.C. Glattli, F.I.B. Williams and M. Heiblum, Low frequency collective excitations in the quantum-Hall system 196 (1988) 501
M.S. Skolnick, J.M. Rorison, K.J. Nash and S.J. Bass, Fermi energy edge singularity in luminescence spectra from modulation-doped quantum wells 196 (1988) 507
J.A. Brum, J. Orgonasi, G. Bastard, C. Delalande, M. Voos, G. Weimann and W. Schlapp, Optical properties of one-side modulation-doped quantum wells 196 (1988) 512
J.C. Maan, Magneto-optical properties of superlattices and quantum wells 196 (1988) 518
J.S. Lee, N. Miura and Y. Iwasa, Magneto-optics of n- and p-type modulation-doped $GaAs/Al_xGa_{1-x}As$ quantum wells 196 (1988) 534
M. Altarelli and G. Platero, Magnetic hole levels in quantum wells in a parallel field 196 (1988) 540
J. Hegarty and M.D. Sturge, Exciton localisation in quantum well structures 196 (1988) 555
J.E. Zucker, E. Isaacs, D. Heiman, A. Pinczuk and D.S. Chemla, Localized quantum well excitons in the high magnetic field limit 196 (1988) 563
L. Viña, Spectroscopic studies of excitonic fine structure under electric fields 196 (1988) 569
J.M. Calleja, C. López, C. Tejedor, L. Viña, E.E. Méndez, W.I. Wang, M. Staines and M. Cardona, Study of electric field effects on the electronic structure of quantum wells by resonant Raman scattering 196 (1988) 578
G. Tränkle, E. Lach, M. Walther, A. Forchel and G. Weimann, Optical investigation of 2D Mott transitions in GaAs/GaAlAs quantum well structures 196 (1988) 584
G.W. Bryant, Excitons in quantum boxes 196 (1988) 596
J.P. Kotthaus, W. Hansen, H. Pohlmann, M. Wassermeier and K. Ploog, Intersubband resonances in quasi-one-dimensional channels 196 (1988) 600

D.Y. Oberli, D.R. Wake, M.V. Klein, T. Henderson and H. Morkoç, Picosecond studies of intersubband relaxation in semiconductor quantum wells 196 (1988) 611
G. Abstreiter, T. Egeler, S. Beeck, A. Seilmeier, H.J. Hübner, G. Weimann and W. Schlapp, Electronic excitations in narrow GaAs/$Al_xGa_{1-x}As$ quantum well structures 196 (1988) 613
B.B. Goldberg, D. Heiman, A. Pinczuk and A.C. Gossard, Inelastic light scattering of valence subband transitions in GaAs/GaAlAs multiple quantum wells 196 (1988) 619
A. Zrenner, F. Koch and K. Ploog, Subband physics for a "realistic" δ-doping layer 196 (1988) 671
C.H. Perry, K.S. Lee, W. Zhou, J.M. Worlock, A. Zrenner, F. Koch and K. Ploog, Magneto-optical studies of a silicon delta-doping layer in n-GaAs 196 (1988) 677
H. Akera, S. Wakahara and T. Ando, Connection rule of envelope functions at heterointerface 196 (1988) 694
P.K. Basu, C.K. Sarkar and S. Kundu, Variation of thermopower of two-dimensional electrons in GaAs and InGaAs at low temperatures 196 (1988) 700
A.M. Dabiran, R.T. Zeller, F.F. Fang, S.L. Wright and P.J. Stiles, Electrochemical potential oscillations of the two-dimensional electron gas in GaAs/AlGaAs heterostructures in high magnetic fields 196 (1988) 712
M. Menon and R.E. Allen, Dynamics of chemisorption and indiffusion at semiconductor surfaces 197 (1988) L237
A. Amirav and M.J. Cardillo, Ion emission due to the scattering of hyperthermal Xe atoms from single crystal surfaces 198 (1988) 192
R. Kalla and J. Pollmann, Bond-angle relaxation and electronic structure of Si and Ge overlayers on (110) surfaces of III-V semiconductors 200 (1988) 80
J. Szuber, Electronic properties of the polar GaAs(111)As surface 200 (1988) 157
H. Flietner, Spectrum and nature of defects at interfaces of semiconductors with predominant homopolar bonding 200 (1988) 463
V.V. Zverkov, A.N. Stepanova, L.N. Obolenskaya and E.I. Givargizov, Field ion microscopy of semiconductor compounds with imaging gas mixtures 200 (1988) 540

Gallium phosphide

R. Kalla and J. Pollmann, Bond-angle relaxation and electronic structure of Si and Ge overlayers on (110) surfaces of III-V semiconductors 200 (1988) 80

Germanium

S. Miura, K. Kato, T. Ide and T. Ichinokawa, Formation of superstructures in Ge-deposited surfaces of Si(110) by annealing 191 (1987) 259
P.M.J. Marée, K. Nakagawa, F.M. Mulders, J.F. van der Veen and K.L. Kavanagh, Thin epitaxial Ge–Si(111) films: study and control of morphology 191 (1987) 305
F. Budde, A. Mödl, A.V. Hamza, P.M. Ferm and G. Ertl, State-resolved investigation of the dynamics of scattering and formation of NO at Ge surfaces 192 (1987) 507
J.A. Benson, J.C. Hansen, M.T. McEllistrem, W.D. Clendening and J.G. Tobin, An investigation of the Au/Ge(001) interface 193 (1988) L37
H. Li and B.P. Tonner, A LEED study of the structure of epitaxial Pb/Ge(111) monolayers and ultra-thin films 193 (1988) 10

N. Ishimaru, H. Ueba and C. Tatsuyama, Initial stage of heteroepitaxy of Ge on Si(111)-7 × 7 and (100)-2 × 1 surfaces studied by low-energy electron-loss spectroscopy (LEELS) 193 (1988) 193
H.J.W. Zandvliet and A. van Silfhout, Surface states on clean Ge(111) surfaces 195 (1988) 138
W.E. Packard and M.B. Webb, Xenon and krypton adsorption on Ge(111) 195 (1988) 371
A. Amirav and M.J. Cardillo, Ion emission due to the scattering of hyper-thermal Xe atoms from single crystal surfaces 198 (1988) 192
R. Kalla and J. Pollmann, Bond-angle relaxation and electronic structure of Si and Ge overlayers on (110) surfaces of III-V semiconductors 200 (1988) 80

Gold

V.M. Castaño and W. Krakow, Observation of the epitaxy, oxidation and surface structure of copper on thin gold films by high resolution electron microscopy 191 (1987) 45
C. Ocal and S. Ferrer, Low temperature diffusion of Pt and Au atoms through thin TiO_2 films on a Ti substrate 191 (1987) 147
S.M. Foiles, Ordered surface phases of Au on Cu 191 (1987) 329
A.D. Gates and J.L. Robins, Heterogeneous nucleation on cleavage steps. III. Comparison of experiment and theory 191 (1987) 499
S. Iijima and T. Ichihashi, Grain boundary migration in small gold particles 192 (1987) L872
C.-C. Tzeng and J.T. Lue, Second-harmonic generation of light from gold and copper films by total internal reflection 192 (1987) 491
J.A. Benson, J.C. Hansen, M.T. McEllistrem, W.D. Clendening and J.G. Tobin, An investigation of the Au/Ge(001) interface 193 (1988) L37
J. Schneider and D.M. Kolb, Potential-induced surface reconstruction of Au(100) 193 (1988) 579
A.D. Gates and J.L. Robins, Cluster mobility calculations for gold particles on (100) NaCl surfaces 194 (1988) 13
A. McCann and J.S. Brown, A self-consistent calculation of the tunneling barrier of metal–vacuum–metal junctions: application to W–Vac–Au 194 (1988) 44
M. Iwami, T. Terada, H. Tochihara, M. Kubota and Y. Murata, Alloyed interface formation in the Au–Si(111)2 × 1 system studied by photoemission spectroscopy 194 (1988) 115
W.A. Schmidt, A.J. Melmed, M.F. Lovisa, M. Naschitzki and J.H. Block, Field-ion energy spectroscopy of gold overlayers on silicon 194 (1988) 127
P.H. McBreen, S. Moore, A. Adnot and D. Roy, SIMS study of the interaction of CO and O_2 with K adsorbed on Au 194 (1988) L112
R. Souda, T. Aizawa, C. Oshima, S. Otani and Y. Ishizawa, Reionization contributions in low-energy scattering of He, Ne and Ar ions from Sn, Au, and $BaTiO_3$ 194 (1988) L119
A. Pavlovska, H. Steffen and E. Bauer, A comparison of thermal desorption techniques at high temperatures: Au on Mo(110) 195 (1988) 207
M.E. Levin, M. Salmeron, A.T. Bell and G.A. Somorjai, The characterization of Ti and Al oxide overlayers on rhodium and gold by XPS 195 (1988) 429
T.M. Parrill, Y.W. Chung and K.A. Stair, The effect of oxygen exposure on subsequent deposition of thin gold films on clean InP($\bar{1}\bar{1}\bar{1}$) surfaces 195 (1988) 443
M. Delaunay, C. Benazeth, N. Benazeth, R. Geller and C. Mayoral, Electron emission in multiply charged noble gas ion–gold solid target collisions: total and Auger yields 195 (1988) 455

J.B.D. Soole and H.P. Hughes, Roughness-coupled light emission from tunnel junctions: the role of the fast surface plasmon 197 (1988) 250
M. Delaunay, R. Geller, J. Debernardi, P. Ludwig and P. Sortais, Electron emission from a metal surface bombarded by highly charged ions 197 (1988) L273
T. Wadayama, T. Sakurai, S. Ichikawa and W. Suëtaka, Charge-transfer enhancement in infrared absorption of thiocyanate ions adsorbed on a gold electrode in the Kretschmann ATR configuration 198 (1988) L359
E.G. Michel, M.C. Asensio and S. Ferrer, Epitaxy of Pt on Au(001): growth mode, interface state and Pt core-level shifts 198 (1988) L365
J. Villain and I. Vilfan, Surface deconstruction of Au(110) 199 (1988) 165
K. Yamazaki, K. Takayanagi, Y. Tanishiro and K. Yagi, Transmission electron microscope study of the reconstructed Au(001) surface 199 (1988) 595
C.E.D. Chidsey, D.N. Loiacono, T. Sleator and S. Nakahara, STM study of the surface morphology of gold on mica 200 (1988) 45
J.-O. Malm and J.-O. Bovin, Real time imaging of moving atom columns on surfaces of gold crystals 200 (1988) 67

Grain boundary

S. Iijima and T. Ichihashi, Grain boundary migration in small gold particles 192 (1987) L872
A. Bukaluk, M. Rozwadowski and R. Siuda, Preliminary results on Cu diffusion through grain boundaries of thin ion-plated Ag–Sn films 200 (1988) 381
F. Warkusz, Electron scattering at the grain boundaries and at the external surfaces in polycrystalline metal films 200 (1988) 394

Graphite

M. Monkenbusch and H.J. Lauter, Structure and dynamics of an 2D hydrogen bonded adlayer – imidazole on grafoil 191 (1987) 547
H.J. Koort, K. Knorr and H. Wiechert, Ellipsometric study of the physisorption of benzene on graphite 192 (1987) 187
K. Morishige, K. Mimata and S. Kittaka, X-ray study of oxygen monolayers on graphite 192 (1987) 197
H.-Y. Kim and M.W. Cole, Substrate mediation of the interaction between adatoms on graphite: discrete lattice model 194 (1988) 257
T.J. Vink, M. Bolech, O.L.J. Gijzeman and J.W. Geus, The reactivity of the graphite overlayer on Fe(110) towards oxygen 194 (1988) 559
W.C. Fan, J. Strozier and A. Ignatiev, Island formation of aluminum on the graphite (0001) surface: LEED and AES study 195 (1988) 226
R.S. Markiewicz, M. Meskoob and B. Maheswaran, Landau gap in a two-dimensional hole gas 196 (1988) 707
T. Mandel, M. Domke and G. Kaindl, Layer-resolved band dispersion of rare-gas multilayers on graphite(001) 197 (1988) 81
R. Lamber, N. Jaeger and G. Schulz-Ekloff, Electron microscopy study of the interaction of Ni, Pd and Pt with carbon. I. Nickel catalyzed graphitization of amorphous carbon 197 (1988) 402
U. Diebold, A. Preisinger, P. Schattschneider and P. Varga, Angle resolved electron energy loss spectroscopy on graphite 197 (1988) 430
H.-Y. Kim, M.W. Cole, F. Toigo and D. Nicholson, Dispersion interaction between adsorbed linear molecules 198 (1988) 555

R.A. Thuraisingham and W.J. Meath, Orientationally averaged spectra. An application to molecules adsorbed on a surface 199 (1988) 199
E.V.L. de Mello and M.S.O. Massunaga, Renormalization group studies for hydrogen isotopes adsorbed on graphite 199 (1988) 579
L. Lajtar, A. Patrykiejew and S. Sokołowski, Evaluation of the phase diagram for nitrogen adsorbed on graphite by means of the density functional theory 200 (1988) 298

Hafnium

M. Wuttig, C. Oshima, T. Aizawa, R. Souda, S. Otani and Y. Ishizawa, Surface phonon dispersion of HfC(100) 192 (1987) 573

Halides

K. Saiki, Y. Sato, K. Ando and A. Koma, In-situ observation of defect formation in CaF_2(111) surfaces induced by low energy electron bombardment 192 (1987) 1
R.C. Baetzold, Y.T. Tan and P.W. Tasker, A computational approach to silver halide surfaces 195 (1988) 579
J.C. Schultz, C.A. Colmenares, J. Naegele and J.C. Spirlet, X-ray photoelectron spectroscopic study of the surface reactions of UFe_2 with O_2, CO and CO_2 198 (1988) 301

Hall effect

D. Pooke, R. Mottahedeh, M. Pepper and A. Gundlach, Quantum transport in narrow Si accumulation layers 196 (1988) 59
M.L. Roukes, A. Scherer, H.G. Craighead, S.J. Allen, Jr., R.M. Ruthen, E.D. Beebe and J.P. Harbison, Transport in ultra-narrow quantum well wires 196 (1988) 79
H. Aoki, Localisation in the quantum Hall regime 196 (1988) 107
L. Bliek, G. Hein, D. Jucknischke, V. Kose, J. Niemeyer, G. Weimann and W. Schlapp, Breakdown of dissipationless quantum Hall conduction in narrow channels 196 (1988) 156
S.A. Trugman and F.R. Waugh, Complex scattering dynamics and the integral quantum Hall effect 196 (1988) 171
R. Meisels, F. Kuchar, K.Y. Lim, G. Weimann and W. Schlapp, The intrinsic plateau width and the effect of the sample boundaries on the integral quantum Hall effect in GaAs/AlGaAs 196 (1988) 177
B.E. Kane, D.C. Tsui and G. Weimann, Low frequency noise in the integral quantum Hall effect 196 (1988) 183
R. Woltjer, Experiments and theory on the quantum Hall effect with inhomogeneous electron density 196 (1988) 188
B.B. Goldberg, D. Heiman, A. Pinczuk, C.W. Tu, A.C. Gossard and J.H. English, Magneto-optics of the fractional quantum Hall effect 196 (1988) 209
R.G. Clark, J.R. Mallett, A. Usher, A.M. Suckling, R.J. Nicholas, S.R. Haynes, Y. Journaux, J.J. Harris and C.T. Foxon, Experimental tests of fractional quantum Hall effect theory 196 (1988) 219
J. Wakabayashi, S. Sudou, S. Kawaji, K. Hirakawa and H. Sakaki, Effects of the gate bias on the activation energies of the fractional quantum Hall effect 196 (1988) 236

R.J. Haug, K. von Klitzing, R.J. Nicholas, J.C. Maan and G. Weimann, The influence of a tilted magnetic field on the fractional quantum Hall effect and the exchange enhancement of the spin splitting 196 (1988) 242
D.A. Syphers and J.E. Furneaux, Fractional quantum Hall effect in tilted magnetic fields 196 (1988) 252
R. Willett, H.L. Stormer, D.C. Tsui, A.C. Gossard, J.H. English and K.W. Baldwin, Fractional quantum Hall effect in extremely high mobility GaAs/(AlGa)As heterostructures 196 (1988) 257
M. Chmielowski, M. Gliński, W.H. Zhuang, G.B. Liang, D.Z. Sun, M.Y. Kong, W. Plesiewicz, T. Dietl and T. Skośkiewicz, Fundamental high-field transport properties of a GaAs/AlGaAs modulation doped heterostructure 196 (1988) 299
K.P. Martin, R.J. Higgins, J.J.L. Rascol, H. Yoo and J.R. Arthur, Quantum lifetime measurements of the two-dimensional electron gas at the inverted AlGaAs/GaAs interface 196 (1988) 323
P.L. Gammel, D.J. Bishop, J.P. Eisenstein, R.P. Hall, H.L. Stormer, A.C. Gossard and J.H. English, Quantum oscillations in a mechanical resonator containing a two-dimensional electron system 196 (1988) 417
M.A. Brummell, D.R. Leadley, R.J. Nicholas, J.J. Harris and C.T. Foxon, Competition between LO and TO phonon scattering in GaAs/GaAlAs heterojunctions 196 (1988) 451
E.Y. Andrei, D.C. Glattli, F.I.B. Williams and M. Heiblum, Low frequency collective excitations in the quantum-Hall system 196 (1988) 501
K.C. Woo, S. Rafol and J.P. Faurie, Electronic properties of HgTe/HgCdTe heterojunctions 196 (1988) 665

Halogens

M. Bowker, B. Wolfindale, D.A. King and G. Lamble, The coadsorption of K and Cl on Ag(100): electronic, kinetic and thermodynamic surface modification by promotion 192 (1987) 95
D.P. Woodruff, D.L. Seymour, C.F. McConville, C.E. Riley, M.D. Crapper, N.P. Prince and R.G. Jones, A simple X-ray standing wave technique for surface structure determination – theory and an application 195 (1988) 237
S. Joyce, J.G. Langan and J.I. Steinfeld, Reactions of XeF_2 with thermally grown SiO_2 195 (1988) 270
E. Grossman, A. Bensaoula and A. Ignatiev, An XPS study of XeF_2 dry etching of tungsten silicide 197 (1988) 99
W.T. Tysoe and R.M. Lambert, Structure and reactivity at the halogen/metal interface: chemisorption, corrosion and reaction pathways in the Pd(111)–Cl_2 system 199 (1988) 1
N. Aoto, E. Ikawa and Y. Kurogi, Low-energy electron energy loss spectroscopy of Cl adsorbed Si(111), Si(100) and Si(110) surfaces 199 (1988) 408
D.J. Holmes, D.R. Batchelor and D.A. King, Surface structure determination by SEXAFS: the reliability of bond lengths and coordination numbers from multi-shell analyses 199 (1988) 476

Hydrogen

M. Karimi and G. Vidali, Long range interaction between hydrogen and rare gas atoms with surfaces of III–V semiconductors 191 (1987) L799

C.H. Mak, J.L. Brand, B.G. Koehler and S.M. George, Coverage dependence of the surface diffusion coefficient for hydrogen on Ru(001) 191 (1987) 108
P.M. Blass, S. Akhter and J.M. White, The adsorption and decomposition of benzene on Ni(100) and the effects of pre-adsorbed C, O, H, and CO 191 (1987) 406
A. Wierzbicki and J.M. Bowman, Vibrational self-consistent field investigation of adsorbate vibrations: coupling of atomic adsorbates to a rigid corrugated surface 191 (1987) 518
A. Ichimiya, RHEED intensity analysis of Si(111)7 × 7 at one-beam condition 192 (1987) L893
M. Lindroos, H. Pfnür and D. Menzel, Investigation of a disordered adsorption system by electron reflection: H/Ru(001) at intermediate coverages 192 (1987) 421
K. Jacobi, Work-function changes and photoemission final-state relaxation of Ne, Ar, Kr, Xe, H_2 and N_2 on gallium 192 (1987) 499
V. Heine and J.J.A. Shaw, Split solitons in the incommensurate and streaked phases of W(001)/H surfaces 193 (1988) 170
W. Reimer, Th. Fink and J. Küppers, Inverse photoemission spectroscopy of H, CO and NO adsorbed at Ni(100) and Ni(111) surfaces 193 (1988) 259
C.H.F. Peden, D.W. Goodman, J.E. Houston and J.T. Yates, Jr., Subsurface hydrogen on Ru(0001): quantification by Cu titration 194 (1988) 92
M. Ehsasi and K. Christmann, The interaction of hydrogen with a rhodium (110) surface 194 (1988) 172
F. Zaera, D.A. Fischer, S. Shen and J.L. Gland, Fluorescence yield near-edge X-ray absorption spectroscopy under atmospheric conditions: CO and H_2 coadsorption on Ni(100) at pressures between 10^{-9} and 0.1 Torr 194 (1988) 205
J. Paul and F.M. Hoffmann, Hydrogen adsorption on alkali modified aluminum 194 (1988) 419
J.L. Brand, A.A. Deckert and S.M. George, Surface diffusion of hydrogen on sulfur-covered Ru(001) surfaces studied using laser-induced thermal desorption 194 (1988) 457
V. Hinkel, L. Sorba and K. Horn, Surface core level shifts of clean and hydrogen-covered InSb(110) 194 (1988) 597
X.-Y. Zhu, S. Akhter, M.E. Castro and J.M. White, Kinetic studies using static SIMS: H_2 adsorption on Ni(100) 195 (1988) L145
E.A. Kurz and J.B. Hudson, The adsorption of H_2 and D_2 on Fe(110). I. Helium scattering as a probe of adsorption 195 (1988) 15
E.A. Kurz and J.B. Hudson, The adsorption of H_2 and D_2 on Fe(110). II. Angle resolved thermal desorption spectroscopy and kinetic mechanism 195 (1988) 31
T.S. Kusuma and A.L. Companion, An EHMO study of the interaction of CO molecules adsorbed on a Ni(111) surface with neighboring CO molecules, H atoms and O atoms 195 (1988) 59
M.E. Levin, K.J. Williams, M. Salmeron, A.T. Bell and G.A. Somorjai, Alumina and titania overlayers on rhodium: a comparison of the chemisorption and catalytic properties 195 (1988) 341
L.J. Richter, T.A. Germer and W. Ho, Coadsorption-induced site changes: bridging hydrogen from CO and H on Rh(100) 195 (1988) L182
P.W. Adams and M.A. Paalanen, Localization effects in a non-degenerate 2DEG 196 (1988) 150
J.M. Nicol, J.J. Rush and R.D. Kelley, Inelastic neutron scattering studies of the interaction of hydrogen with palladium black 197 (1988) 67
R. Lamber, N. Jaeger and G. Schulz-Ekloff, Electron microscopy study of the interaction of Ni, Pd and Pt with carbon. I. Nickel catalyzed graphitization of amorphous carbon 197 (1988) 402

J. Harris, T. Rahman and K. Yang, A mechanism for vibrational excitation in associative desorption 198 (1988) L312
N.L. Liu, B.H. Choi and X. Shen, Selective adsorption of H_2 + Cu(001) surface. I. A quasiclassical trajectory study 198 (1988) 79
B.H. Choi, N.L. Liu and X. Shen, Selective adsorption of H_2 + Cu(001) surface. II. Quantum mechanical calculation of quasibound compound states 198 (1988) 99
J.-W. He, D.A. Harrington, K. Griffiths and P.R. Norton, The interaction of hydrogen with a Pd(100) surface 198 (1988) 413
G.S. Tompa, W.E. Carr and M. Seidl, Work function of metallic surfaces bombarded with cesium ions 198 (1988) 431
L. Westerlund, L. Jönsson and S. Andersson, Hydrogen recombination and Σ-desorption from the Ni(100)-H-CO coadsorption system 199 (1988) 109
O. M'hamedi, F. Proix, J.P. Lacharme and C.A. Sébenne, Interaction of atomic hydrogen with InP(100): comparison with the cleaved surface interaction 199 (1988) 121
J. Rubio, J.M. López Sancho, M.C. Refolio and M.P. López Sancho, The dynamic form factor of a one-level adsorbate: cluster–Bethe lattice approach in configuration space 199 (1988) 297
C.T. Au, W. Hirsch and W. Hirschwald, Adsorption and interaction of carbon dioxide, formic acid and hydrogen/carbon dioxide mixtures on $(10\bar{1}0)$ zinc oxide surfaces studied by photoelectron spectroscopy (XPS and UPS) 199 (1988) 507
E.V.L. de Mello and M.S.O. Massunaga, Renormalization group studies for hydrogen isotopes adsorbed on graphite 199 (1988) 579
M. Stęślicka, M. Zagórski and L. Jurczyszyn, Theoretical investigation of image states of hydrogen covered Cu(100) 200 (1988) 209
Ts.S. Marinova and D.V. Chakarov, Hydrogen isotope exchange in a coverage obtained on Ir(111) by ethylene adsorption 200 (1988) 309

Hydrogen cyanide

J.S. Somers, M.E. Kordesch, R. Hemmen, Th. Lindner, H. Conrad and A.M. Bradshaw, An angle-resolved photoemission investigation of CN, HCN and C_2N_2 adsorbed on Pd{111} using synchrotron radiation 198 (1988) 400

Hydrogen sulphide

W. Ranke, H.J. Kuhr and J. Finster, Orientation and temperature dependent adsorption of H_2S on GaAs: valence band photoemission 192 (1987) 81
J.N. Andersen, Adsorption of H_2S on Ni(100): kinetics and structure 192 (1987) 583
G.E. Mitchell, M.A. Schulz and J.M. White, The reaction of H_2S with adsorbed oxygen atoms on platinum (111) 197 (1988) 379
C. Egawa and Y. Iwasawa, Ethane hydrogenolysis on a Ru(1,1,10) surface 198 (1988) L329

Indium antimonide

R. Sporken, P. Xhonneux, R. Caudano and J.P. Delrue, The formation of the Al–InSb(110) interface 193 (1988) 47

V. Hinkel, L. Sorba and K. Horn, Surface core level shifts of clean and hydrogen-covered InSb(110) 194 (1988) 597
S. Oelting, A.D. Wieck, E. Batke and U. Merkt, Cyclotron masses of inversion electrons in tilted magnetic fields 196 (1988) 273
J.C. Maan, Magneto-optical properties of superlattices and quantum wells 196 (1988) 518
D.L. Smith and C. Mailhiot, Strained type II superlattices 196 (1988) 683
T. Inaoka, Dielectric response of a degenerate polar semiconductor surface 198 (1988) 491
V.V. Zverkov, A.N. Stepanova, L.N. Obolenskaya and E.I. Givargizov, Field ion microscopy of semiconductor compounds with imaging gas mixtures 200 (1988) 540

Indium arsenide

T.P. Smith, III, H. Munekata, L.L. Chang, F.F. Fang and L. Esaki, Magnetic-field-induced transitions in InAs/$Ga_{1-x}Al_xSb$ heterostructures 196 (1988) 687
P.K. Basu, C.K. Sarkar and S. Kundu, Variation of thermopower of two-dimensional electrons in GaAs and InGaAs at low temperatures 196 (1988) 700

Indium phosphide

R. Hornstein, D. Schmeisser, W. Göpel and M. Kunst, Growth of ordered Al_2O_3-(1 × 1) passivation layers on InP(100) 192 (1987) 563
T.M. Parrill, Y.W. Chung and K.A. Stair, The effect of oxygen exposure on subsequent deposition of thin gold films on clean InP($\bar{1}\bar{1}\bar{1}$) surfaces 195 (1988) 443
R. Sauer, T.D. Harris and W.T. Tsang, Photoluminescence and photoluminescence excitation study of electron–hole tunneling in $In_{0.53}Ga_{0.47}As$/InP coupled-single quantum wells 196 (1988) 388
D.J. Westland, D. Mihailovič, J.F. Ryan and M.D. Scott, Time-resolved photoluminescence measurement of carrier trapping time of InGaAs/InP quantum wells 196 (1988) 399
M.S. Skolnick, J.M. Rorison, K.J. Nash and S.J. Bass, Fermi energy edge singularity in luminescence spectra from modulation-doped quantum wells 196 (1988) 507
A. Amirav and M.J. Cardillo, Ion emission due to the scattering of hyperthermal Xe atoms from single crystal surfaces 198 (1988) 192
O. M'hamedi, F. Proix, J.P. Lacharme and C.A. Sébenne, Interaction of atomic hydrogen with InP(100): comparison with the cleaved surface interaction 199 (1988) 121
J. Sánchez-Dehesa, F. Flores, J. Ortega and J.D. Dow, Schottky barrier formation in defect-free metal/III–V semiconductor junctions 200 (1988) 424

Infrared spectroscopy

D.H. Ehlers, A.P. Esser, A. Spitzer and H. Lüth, Coadsorption of CO with methanol, water and xenon on Pt(111): band suppression in vibrational spectroscopy 191 (1987) 466
B.E. Hayden, A.W. Robinson and P.M. Tucker, IR evidence for the molecular reorientation of linear CO on Pt(110)-(1 × 2) 192 (1987) 163
M.R. Albert and J.T. Yates, Jr., Evidence for a surface vacancy requirement in the formation of ethylidyne from ethylene on Pd particles 192 (1987) 225

H.A.C.M. Hendrickx and V. Ponec, Effects of alloying and coadsorption: an IR study 192 (1987) 234
G.R. Schoofs and J.B. Benziger, Reactions of pyrrole with Ni(100) 192 (1987) 373
S. Oelting, A.D. Wieck, E. Batke and U. Merkt, Cyclotron masses of inversion electrons in tilted magnetic fields 196 (1988) 273
J.-M. Mercy, B.D. McCombe, W. Beard, J. Ralston and G. Wicks, Barrier impurity states in modulation doped AlGaAs/GaAs multi-quantum wells 196 (1988) 334
D. Gammon, E. Glaser, B.V. Shanabrook and D. Musser, A spectroscopic study of screening effects in a quasi-two-dimensional system 196 (1988) 359
J.P. Kotthaus, W. Hansen, H. Pohlmann, M. Wassermeier and K. Ploog, Intersubband resonances in quasi-one-dimensional channels 196 (1988) 600
G. Abstreiter, T. Egeler, S. Beeck, A. Seilmeier, H.J. Hübner, G. Weimann and W. Schlapp, Electronic excitations in narrow GaAs/$Al_xGa_{1-x}As$ quantum well structures 196 (1988) 613
V.P. Zhdanov, On the phonon mechanism of vibrational relaxation of adsorbed particles 197 (1988) 35
D.S. Bethune, A.C. Luntz, J.K. Sass and D.K. Roe, Optical analysis of thin-layer electrochemical cells for infrared spectroscopy of adsorbates 197 (1988) 44
D.H. Chenery, M.A. Chesters and E.M. McCash, Time resolved Fourier transform reflection–absorption infrared spectroscopy 198 (1988) 1
D. Scarano, A. Zecchina and A. Reller, IR study of CO adsorption on α-Cr_2O_3 198 (1988) 11

Interface, see Solid–electrolyte interface

Iodine, see Halogens

Ion bombardment

R.-S. Li and Y.-Z. Sun, Quantitative Auger electron spectroscopy analysis of the Au–Cu alloys 191 (1987) 339
R.J. Lad and V.E. Henrich, Structure of α-Fe_2O_3 single crystal surfaces following Ar^+ ion bombardment and annealing in O_2 193 (1988) 81
R.-S. Li, Temperature dependence of the surface composition changes under Ar ion bombardment of an $Au_{0.5}Cu_{0.5}$ alloy between 30 °C and 700 °C 193 (1988) 373
S.-L. Lee and R.R. Lucchese, Simulation of heavy ion induced desorption of biomolecules from surfaces using the popcorn model 193 (1988) 486
M.A. Karolewski and R.G. Cavell, An ion-induced crystal current study of clean, sulphided and oxidized Cu(100) 198 (1988) 118

Ion implantation

E. Czarnecka-Such and A. Kisiel, Analysis of reflectivity spectra of silicon implanted with 70 keV B, Si, and Ag ions 193 (1988) 221
X.D. Peng, D.S. Edwards and M.A. Barteau, Reactions of O_2 and H_2O with magnesium nitride films 195 (1988) 103

Ion scattering

F. Besenbacher, I. Stensgaard and K. Mortensen, Adsorption position of deuterium on the Pd(100) surface determined with transmission channeling 191 (1987) 288

P.M.J. Marée, K. Nakagawa, F.M. Mulders, J.F. van der Veen and K.L. Kavanagh, Thin epitaxial Ge–Si(111) films: study and control of morphology 191 (1987) 305
A. Ishii, Theory of Auger neutralization of He^+ ions on NaCl surfaces due to the local electronic structures 192 (1987) 172
P.J. Kuntz and K. Lacmann, Surface-induced luminescence of alkali atoms 192 (1987) L859
Z.B. Guvenc, N.L. Liu and B.H. Choi, Coherent excitation of fast hydrogenic ions by a crystal surface 192 (1987) 529
N.Q. Lam and H.A. Hoff, Surface and subsurface composition changes in Ni–Si alloys during elevated-temperature sputtering 193 (1988) 353
D.R. Mullins and S.H. Overbury, The structure of the carburized W(001) surface 193 (1988) 455
H. Nakamatsu, A. Sudo and S. Kawai, Relaxation of the MgO(100) surface studied by ICISS 194 (1988) 265
F. Sols and R.H. Ritchie, Self-energy of a charge near an interface 194 (1988) 275
R. Souda, T. Aizawa, C. Oshima, S. Otani and Y. Ishizawa, Reionization contributions in low-energy scattering of He, Ne and Ar ions from Sn, Au, and $BaTiO_3$ 194 (1988) L119
P.A. Zeijlmans van Emmichoven, P.A.A.F. Wouters and A. Niehaus, Angle resolved electron spectra from grazing incidence He^{2+}/Cu(110) collisions 195 (1988) 115
P.H. McBreen, S. Serghini-Monim, D. Roy and A. Adnot, Decomposition of formic acid on FeTi 195 (1988) L208
R. Kawai and M. Kawai, Theory of the low-energy surface Okorokov excitation for studying excited states of atoms in collision with surfaces 195 (1988) 535
D.J. O'Connor, Y.G. Shen, J.M. Wilson and R.J. MacDonald, The role of the electronic structure in charge exchange between low energy ions and surfaces 197 (1988) 277
K.W. Sulston, A.T. Amos and S.G. Davison, Comparative study of approximate theoretical treatments of surface-ion neutralization 197 (1988) 555
G.H. Vurens, D.R. Strongin, M. Salmeron and G.A. Somorjai, An ISS and AES study of alkali induced sintering of an iron oxide monolayer adsorbed on Pt(111) 199 (1988) L387
K.J. Schafer, N.-H. Kwong and J.D. Garcia, Ion–surface scattering in the time-dependent mean-field approximation 199 (1988) 132
D.R. Mullins and S.H. Overbury, The structure and composition of the NiAl(110) and NiAl(100) surfaces 199 (1988) 141
R. Souda, C. Oshima, S. Otani, Y. Ishizawa and M. Aono, Structure analysis of oxygen adsorbed TiC(111) by impact collision ion scattering spectroscopy 199 (1988) 154
D.A. Asbury and G.B. Hoflund, The influence of annealing and low-pressure oxygen exposure on a sputtered Pt_3Sn alloy surface. III 199 (1988) 552

Iridium

Ts.S. Marinova and D.V. Chakarov, Adsorption of ethylene on Ir(111) 192 (1987) 275
K. Watanabe, D.J.W. Geldart and H.J. Kreuzer, Kinetics of $1 \times 1 \rightarrow 1 \times 5$ surface reconstruction on Ir(100) 192 (1987) 344
T.T. Tsong, H.M. Liu, Q.J. Gao, Y. Liou and D.L. Feng, Atomic structures of silicon and metal surfaces; pulsed-laser TOF atom-probe and field ion microscopy 200 (1988) 220

Iron

Q.J. Gao and T.T. Tsong, Atomic structures of epitaxial overlayers of bcc Fe on fcc Rh surfaces 191 (1987) L787
A. Clarke, P.J. Rous, M. Arnott, G. Jennings and R.F. Willis, Thickness dependent relaxations in γ fcc Fe films on Cu(001): a LEED structural study 192 (1987) L843
K. Kishi, Reaction of O_2 and $C_6H_5NO_2$ with Fe/Ni(100) surface studied by XPS 192 (1987) 210
Hu Yongjun and Lin Zhangda, Electronic structure and the interactions of Ni and Fe on the ion sputtered basal faces of MoS_2 single crystal 192 (1987) 283
D.A. Steigerwald and W.F. Egelhoff, Jr., Observation of intensity oscillations in RHEED during the epitaxial growth of Cu and fcc Fe on Cu(100) 192 (1987) L887
S. Nakanishi and K. Sasaki, Adsorption of sulfur on the iron (001) surface 194 (1988) 245
T.J. Vink, M. Bolech, O.L.J. Gijzeman and J.W. Geus, The reactivity of the graphite overlayer on Fe(110) towards oxygen 194 (1988) 559
E.A. Kurz and J.B. Hudson, The adsorption of H_2 and D_2 on Fe(110). I. Helium scattering as a probe of adsorption 195 (1988) 15
E.A. Kurz and J.B. Hudson, The adsorption of H_2 and D_2 on Fe(110). II. Angle resolved thermal desorption spectroscopy and kinetic mechanism 195 (1988) 31
Y. Darici, J. Marcano, H. Min and P.A. Montano, LEED measurements of one monolayer of iron epitaxially grown on Cu(111) 195 (1988) 566
M. Bowker, I. Parker and K.C. Waugh, The application of surface kinetic data to the industrial synthesis of ammonia 197 (1988) L223
P. Stoltze and J.K. Nørskov, Comment on 'The application of surface kinetic data to the industrial synthesis of ammonia' by M. Bowker, I. Parker, and K.C. Waugh 197 (1988) L230
W. Arabczyk, M. Militzer, H.-J. Müssig and J. Wieting, Contribution of pipe diffusion to surface segregation kinetics 198 (1988) 167
S.D. Cameron and D.J. Dwyer, Charge transfer effects on CO bond cleavage: CO and potassium on Fe(100) 198 (1988) 315
J.-P. Lu, M.R. Albert, S.L. Bernasek and D.J. Dwyer, Adsorption state conversion of CO on Fe(100) 199 (1988) L406
M. Es-Souni and A. Mosser, Comments on 'Surface segregation of Si on Fe single crystal surfaces and interaction with carbon' 199 (1988) 439

Iron oxide

R.J. Lad and V.E. Henrich, Structure of α-Fe_2O_3 single crystal surfaces following Ar^+ ion bombardment and annealing in O_2 193 (1988) 81
G.H. Vurens, D.R. Strongin, M. Salmeron and G.A. Somorjai, An ISS and AES study of alkali induced sintering of an iron oxide monolayer adsorbed on Pt(111) 199 (1988) L387
E. Paparazzo, Comment on 'Structure of α-Fe_2O_3 single crystal surfaces following Ar^+ ion bombardment and annealing in O_2' by R.J. Lad and V.E. Henrich 200 (1988) L470
R.J. Lad and V.E. Henrich, Reply to "Comment on 'Structure of α-Fe_2O_3 single crystal surfaces following Ar^+ ion bombardment and annealing in O_2'" by E. Paparazzo 200 (1988) L473

Lanthanides

S. Černý and Z. Pientka, Heat of interaction of carbon monoxide with dysprosium 191 (1987) 449
L. Gładyszewski, Thermoemission of Eu^+ ions and its fluctuations 200 (1988) 386

Lead

K.C. Prince, Adsorption of potassium on Pb(110) 193 (1988) L24
M.G. Samant, M.F. Toney, G.L. Borges, L. Blum and O.R. Melroy, In-situ grazing incidence X-ray diffraction study of electrochemically deposited Pb monolayers on Ag(111) 193 (1988) L29
H. Li and B.P. Tonner, A LEED study of the structure of epitaxial Pb/Ge(111) monolayers and ultra-thin films 193 (1988) 10
G. Quentel, M. Gauch and A. Degiovanni, In situ ellipsometry studies of the growth of Pb on Si(111) surfaces 193 (1988) 212

Light scattering

Y.S. Kim, P.T. Leung and T.F. George, Classical decay rates for molecules in the presence of a spherical surface: a complete treatment 195 (1988) 1
B.B. Goldberg, D. Heiman, A. Pinczuk and A.C. Gossard, Inelastic light scattering of valence subband transitions in GaAs/GaAlAs multiple quantum wells 196 (1988) 619

Low energy electron diffraction

K. Heinz, A. Barthel, L. Hammer and K. Müller, Kinetics of the irreversible transition Pt(110)$1 \times 1 \rightarrow 1 \times 2$ as observed by LEED 191 (1987) 174
S. Miura, K. Kato, T. Ide and T. Ichinokawa, Formation of superstructures in Ge-deposited surfaces of Si(110) by annealing 191 (1987) 259
A. Gellman, W.T. Tysoe, F. Zaera and G.A. Somorjai, A UPS and XPS investigation of the adsorption of sulfur on Mo(100): adsorption site and lateral interactions 191 (1987) 271
A. Clarke, P.J. Rous, M. Arnott, G. Jennings and R.F. Willis, Thickness dependent relaxations in γ fcc Fe films on Cu(001): a LEED structural study 192 (1987) L843
H. Kemmann, F. Müller and H. Neddermeyer, AES, LEED and TDS studies of Cu on Si(111)7×7 and Si(100)2×1 192 (1987) 11
J.N. Andersen, Comment on 'On the structure of chemisorbed sulphur overlayers on Ni(100)' by W. Daum 192 (1987) L866
W. Daum, Reply to "Comment on 'On the structure of chemisorbed sulphur overlayers on Ni(100)'" by J.N. Andersen 192 (1987) L871
M. Nishijima, J. Yoshinobu, H. Tsuda and M. Onchi, The adsorption and thermal decomposition of acetylene on Si(100) and vicinal Si(100)9° 192 (1987) 383
F. Jona, Results of an international LEED intensity project. I. Reproducibility of experimental spectra 192 (1987) 398
F. Jona, P. Jiang and P.M. Marcus, Results of an international LEED intensity project. II. Evaluation of structural parameters 192 (1987) 414

M. Lindroos, H. Pfnür and D. Menzel, Investigation of a disordered adsorption system by electron reflection: H/Ru(001) at intermediate coverages 192 (1987) 421
R. Hornstein, D. Schmeisser, W. Göpel and M. Kunst, Growth of ordered Al_2O_3-(1 × 1) passivation layers on InP(100) 192 (1987) 563
J.N. Andersen, Adsorption of H_2S on Ni(100): kinetics and structure 192 (1987) 583
K.C. Prince, Adsorption of potassium on Pb(110) 193 (1988) L24
R.Q. Hwang, E.D. Williams and R.L. Park, Thermal disordering of the $(\sqrt{3} \times \sqrt{3})R30°$ structure of Al on Si(111) 193 (1988) L53
P.L. De Andres, P.J. Rous and J.B. Pendry, Phonon scattering in diffuse LEED 193 (1988) 1
H. Li and B.P. Tonner, A LEED study of the structure of epitaxial Pb/Ge(111) monolayers and ultra-thin films 193 (1988) 10
H. Onishi, T. Aruga, C. Egawa and Y. Iwasawa, Adsorption of CH_3OH, HCOOH and SO_2 on TiO_2(110) and stepped TiO_2(441) surfaces 193 (1988) 33
R.J. Lad and V.E. Henrich, Structure of α-Fe_2O_3 single crystal surfaces following Ar^+ ion bombardment and annealing in O_2 193 (1988) 81
P.A. Dowben, A. Miller, H.-J. Ruppender and M. Grunze, The influence of surface metal composition of Fe–Cr alloys on the dissociative adsorption of N_2 193 (1988) 336
G. Akinci, T.R. Ohno and E.D. Williams, $NiSi_2$ on Si(111). I. Effects of substrate cleaning procedure and reconstruction 193 (1988) 534
J.-K. Zuo and G.-C. Wang, Defects in a W(112) surface 194 (1988) L77
V.P. Zhdanov, On the application of LEED to study the dynamics of two-dimensional ordering 194 (1988) L100
G. Pirug and H.P. Bonzel, Ordering of potassium overlayers on Pt(111) 194 (1988) 159
M. Ehsasi and K. Christmann, The interaction of hydrogen with a rhodium (110) surface 194 (1988) 172
S. Nakanishi and K. Sasaki, Adsorption of sulfur on the iron (001) surface 194 (1988) 245
C. Egawa and Y. Iwasawa, Adsorption of CO and D_2 on Fe/Ru(001) surface 195 (1988) 43
D. Heskett, A. Baddorf and E.W. Plummer, Nitrogen-induced reconstruction of Cu(110): formation of a surface nitride 195 (1988) 94
W.C. Fan, J. Strozier and A. Ignatiev, Island formation of aluminum on the graphite (0001) surface: LEED and AES study 195 (1988) 226
J.C. Boulliard and M.P. Sotto, Structural study of segregated sulphur on the stepped faces associated with Cu(100) 195 (1988) 255
R.J. Phaneuf and E.D. Williams, Metastable structures of Si(111) formed by laser-quenching 195 (1988) 330
M.C. Tringides and M.G. Lagally, The use of peak intensity in diffraction measurements of growth kinetics on surfaces 195 (1988) L159
W.E. Packard and M.B. Webb, Xenon and krypton adsorption on Ge(111) 195 (1988) 371
Y. Darici, J. Marcano, H. Min and P.A. Montano, LEED measurements of one monolayer of iron epitaxially grown on Cu(111) 195 (1988) 566
C.B. Duke, A. Paton, Y.R. Wang, K. Stiles and A. Kahn, Dynamical analysis of low-energy electron diffraction intensities from CdSe($10\bar{1}0$) 197 (1988) 11
G. Hitchen and S. Thurgate, Azimuthal angular dependence of LEED fine structure from Cu(001) 197 (1988) 24
S. Ladas, R. Imbihl and G. Ertl, Microfacetting of a Pt(110) surface during catalytic CO oxidation 197 (1988) 153
M. Cotter, S. Campbell, R.G. Egdell and W.C. Mackrodt, Growth of ordered BaO overlayers on MgO(001) 197 (1988) 208
P. Morgen, M. Szymonski, J. Onsgaard, B. Jørgensen and G. Rossi, Formation of the Pt–Si(111) interface 197 (1988) 347

S. Ladas, R. Imbihl and G. Ertl, Kinetic oscillations and facetting during the catalytic CO oxidation on Pt(110) 198 (1988) 42
J.-W. He, D.A. Harrington, K. Griffiths and P.R. Norton, The interaction of hydrogen with a Pd(100) surface 198 (1988) 413
L. Westerlund, L. Jönsson and S. Andersson, Hydrogen recombination and Σ-desorption from the Ni(100)-H-CO coadsorption system 199 (1988) 109
E.C. Sowa, M.A. Van Hove and D.L. Adams, The missing-row model for the reconstructed Pt(110)–(1 × 2) surface: a LEED intensity analysis showing multilayer distortions 199 (1988) 174
G. Pirug and H.P. Bonzel, Short range interaction of K and CO coadsorbed on Pt(111) 199 (1988) 371
R. Altsinger, H. Busch, M. Horn and M. Henzler, Nucleation and growth during molecular beam epitaxy (MBE) of Si on Si(111) 200 (1988) 235
W. Telieps and E. Bauer, Low energy electron microscopy of surfaces 200 (1988) 512

Magnesium

A. Zecchina, D. Scarano, L. Marchese, S. Coluccia and E. Giamello, Defect centres on Mg-doped MgO surfaces 194 (1988) 531
X.D. Peng, D.S. Edwards and M.A. Barteau, Reactions of O_2 and H_2O with magnesium nitride films 195 (1988) 103

Magnesium oxide

H. Onishi, C. Egawa, T. Aruga and Y. Iwasawa, Adsorption of Na atoms and oxygen-containing molecules on MgO(100) and (111) surfaces 191 (1987) 479
Z.L. Wang and J.M. Cowley, Reflection electron energy loss spectroscopy (REELS): a technique for the study of surfaces 193 (1988) 501
H. Nakamatsu, A. Sudo and S. Kawai, Relaxation of the MgO(100) surface studied by ICISS 194 (1988) 265
A. Zecchina, D. Scarano, L. Marchese, S. Coluccia and E. Giamello, Defect centres on Mg-doped MgO surfaces 194 (1988) 531
M. Cotter, S. Campbell, R.G. Egdell and W.C. Mackrodt, Growth of ordered BaO overlayers on MgO(001) 197 (1988) 208
R. Huzimura, H. Kurisu and T. Okuda, Interaction of CO with surface defects of MgO: a high vacuum ESR study 197 (1988) 444
P.W. Fowler and P. Tole, Effects of coordination number on surface ions: an ab initio study of LiF and MgO 197 (1988) 457

Magnetic measurements

H.J. Elmers and U. Gradmann, Magnetometric analysis of the interaction of Ni(111) with oxygen 193 (1988) 94
A.M. Chang, G. Timp, T.Y. Chang, J.E. Cunningham, B. Chelluri, P.M. Mankiewich, R.E. Behringer and R.E. Howard, Magneto-quantum transport in a quasi-one-dimensional GaAs/$Al_xGa_{1-x}As$ ring 196 (1988) 46
R.P. Taylor, M.L. Leadbeater, G.P. Whittington, P.C. Main, L. Eaves, S.P. Beaumont, I. McIntyre, S. Thoms and C.D.W. Wilkinson, Universal conductance fluctuations in the magnetoresistance of submicron-size n^+-GaAs wires and laterally confined n^--GaAs/(AlGa)As heterostructures 196 (1988) 52

G. Timp, A.M. Chang, P. deVegvar, R.E. Howard, R. Behringer, J.E. Cunningham and P. Mankiewich, Quantum transport in one-dimensional GaAs/AlGaAs microstructures 196 (1988) 68
J.A. Simmons, D.C. Tsui and G. Weimann, Quantum interference effects in high-mobility mesoscopic GaAs/$Al_xGa_{1-x}As$ heterostructures 196 (1988) 81
J.J. Wainer, A.B. Fowler and R.A. Webb, Magnetic field effects in strongly localized quasi-1D MOSFETs 196 (1988) 134
H. van Houten, C.W.J. Beenakker, B.J. van Wees and J.E. Mooij, Boundary scattering modified one-dimensional weak localization in submicron GaAs/AlGaAs heterostructures 196 (1988) 144
P.W. Adams and M.A. Paalanen, Localization effects in a non-degenerate 2DEG 196 (1988) 150
M. D'Iorio, A.S. Sachrajda, D. Landheer, M. Buchanan, T. Moore, C.J. Miner and A.J. Springthorpe, Narrow channel breakdown in GaAs/AlGaAs heterostructures 196 (1988) 165
I.V. Kukushkin and V.B. Timofeev, Optical measurements of Landau level density of states and Coulomb gaps under FQHE in Si MOSFET 196 (1988) 196
G.L.J.A. Rikken, P. Wyder, K. Ploog, J.M. Chamberlain, R.T. Grimes and G. Hill, Nanosecond far infra red magnetospectroscopy of GaAs/AlGaAs heterostructures 196 (1988) 303
A. Waag, W. Heuring, G. Remenyi, G. Landwehr, E. Bangert, G. Weimann and W. Schlapp, Density of states in a two-dimensional hole gas in high magnetic fields 196 (1988) 328
C.A. Payling, E.S. Alves, L. Eaves, T.J. Foster, M. Henini, O.H. Hughes, P.E. Simmonds, F.W. Sheard, G.A. Toombs and J.C. Portal, Evidence for sequential tunnelling and charge build-up in double barrier resonant tunnelling devices 196 (1988) 404
J.P. Eisenstein, A.C. Gossard and V. Narayanamurti, Thermal conductance magneto-oscillations and electron–phonon coupling in GaAs/AlGaAs heterostructures 196 (1988) 445
J.C. Maan, Magneto-optical properties of superlattices and quantum wells 196 (1988) 518
S.-R. Eric Yang and L.J. Sham, Theory of magneto-excitons in quantum wells 196 (1988) 533
S. Lamari and L.J. Sham, Theory of magneto-optical properties in narrow-gap semiconductor quantum wells 196 (1988) 551
J.E. Zucker, E. Isaacs, D. Heiman, A. Pinczuk and D.S. Chemla, Localized quantum well excitons in the high magnetic field limit 196 (1988) 563
B.B. Goldberg, D. Heiman, A. Pinczuk and A.C. Gossard, Inelastic light scattering of valence subband transitions in GaAs/GaAlAs multiple quantum wells 196 (1988) 619
R. Borroff, R. Merlin, R.L. Greene and J. Comas, Observation of coupled quasi-two-dimensional electronic excitations in tilted magnetic fields 196 (1988) 626
A. Zrenner, F. Koch and K. Ploog, Subband physics for a "realistic" δ-doping layer 196 (1988) 671
C.H. Perry, K.S. Lee, W. Zhou, J.M. Worlock, A. Zrenner, F. Koch and K. Ploog, Magneto-optical studies of a silicon delta-doping layer in n-GaAs 196 (1988) 677
R.S. Markiewicz, M. Meskoob and B. Maheswaran, Landau gap in a two-dimensional hole gas 196 (1988) 707
A.M. Dabiran, R.T. Zeller, F.F. Fang, S.L. Wright and P.J. Stiles, Electrochemical potential oscillations of the two-dimensional electron gas in GaAs/AlGaAs heterostructures in high magnetic fields 196 (1988) 712

Magnetic structure

W. Korneta and Z. Pytel, The effect of surfaces on the domain structure 192 (1987) L899
T. Ando, Localization in two-dimensional square lattices: effects of magnetic field and spin–orbit interaction 196 (1988) 120
B. Kramer, Y. Ono and T. Ohtsuki, On the fractal dimensionality of the extended states in disordered two-dimensional systems in a strong magnetic field 196 (1988) 127
U. Gummich, G.G. Cabrera and C.E.T. Gonçalves da Silva, Ultrathin magnetic layers in semiconductor superlattices 196 (1988) 643
D.D. Awschalom, G. Grinstein, J. Yoshino, H. Munekata and L.L. Chang, Dimensional dependence of magnetic susceptibility in dilute magnetic semiconductor superlattices 196 (1988) 649
S.A. Jackson, Spin fluctuations and magnetic polaron formation in dilute magnetic semiconductor quantum well structures 196 (1988) 654
G.E. Marques, V.A. Chitta, M.H. Degani and O. Hipólito, Bound magnetic polaron in semimagnetic semiconductor heterostructures 196 (1988) 659
J.M. Sanchez and J.L. Morán-López, Surface ferromagnetism in close-packed structures 198 (1988) L299
J. Barnaś, Bulk and surface magnetostatic modes in superlattices 200 (1988) 446

Manganese

J. Hrbek, T.K. Sham and M.-L. Shek, Electronic structure of Mn overlayers on the Ru(001) surface 191 (1987) L772
A.V. Nurmikko, Quasi-two-dimensional excitons in selected II–VI compound semiconductor superlattices: the case of a small valence band offset 196 (1988) 632
G.E. Marques, V.A. Chitta, M.H. Degani and O. Hipólito, Bound magnetic polaron in semimagnetic semiconductor heterostructures 196 (1988) 659
S. Kuźmiński and A.T. Szaynok, Surface photovoltage investigations of $Cd_{1-x}Mn_xTe$ for $x = 0.01$ and 0.10 200 (1988) 192

Mercury

K.C. Woo, S. Rafol and J.P. Faurie, Electronic properties of HgTe/HgCdTe heterojunctions 196 (1988) 665
G.S. Boebinger, Y. Guldner, J.P. Vieren, M. Voos and J.P. Faurie, Two-dimensional electron gas in HgCdTe/CdTe heterostructures 196 (1988) 669

Metals

J.E. Black, V.T. Huynh, D.J. Cheng and R.F. Wallis, Surface vibrations on body centered cubic metal surfaces: the (110) surfaces 192 (1987) 541
F. Sols and R.H. Ritchie, Self-energy of a charge near an interface 194 (1988) 275
D.J. O'Connor, Y.G. Shen, J.M. Wilson and R.J. MacDonald, The role of the electronic structure in charge exchange between low energy ions and surfaces 197 (1988) 277

P.J. Jennings, A new method for studying the interaction of positrons with metal surfaces 198 (1988) 180

Methane

S.G. Brass and G. Ehrlich, Activated chemisorption of CH_4 and internal molecular motions 191 (1987) L819
B.D. Kay and M.E. Coltrin, Quantum tunneling and the activated chemisorption of methane on tungsten. Comment on 'Activated chemisorption of methane and tunneling' by T.-C. Lo and G. Ehrlich 198 (1988) L375
T.-C. Lo and G. Ehrlich, Activated chemisorption of methane and tunneling: a second look. Reply to a Comment by B.D. Kay and M.E. Coltrin 198 (1988) L380

Methanol

D.H. Ehlers, A.P. Esser, A. Spitzer and H. Lüth, Coadsorption of CO with methanol, water and xenon on Pt(111): band suppression in vibrational spectroscopy 191 (1987) 466
H. Onishi, C. Egawa, T. Aruga and Y. Iwasawa, Adsorption of Na atoms and oxygen-containing molecules on MgO(100) and (111) surfaces 191 (1987) 479
H. Onishi, T. Aruga, C. Egawa and Y. Iwasawa, Adsorption of CH_3OH, HCOOH and SO_2 on TiO_2(110) and stepped TiO_2(441) surfaces 193 (1988) 33
J.G. Chen, P. Basu, L. Ng and J.T. Yates, Jr., A comparative study of the reactivities of H_2O, CH_3OH, and CH_3OCH_3 toward Al(111) 194 (1988) 397
S.A. Jansen and R. Hoffmann, Surface chemistry of transition metal carbides: a theoretical analysis 197 (1988) 474
D.H. Chenery, M.A. Chesters and E.M. McCash, Time resolved Fourier transform reflection–absorption infrared spectroscopy 198 (1988) 1

Mica

C.E.D. Chidsey, D.N. Loiacono, T. Sleator and S. Nakahara, STM study of the surface morphology of gold on mica 200 (1988) 45

Molecular beam studies

N.R. Gall, S.N. Mikhailov, E.V. Rut'kov and A.Ya. Tontegode, Carbon interaction with the rhenium surface 191 (1987) 185
G.C. Corey, J.E. Smedley, M.H. Alexander and W.-K. Liu, Collisions of NO($X\ ^2\Pi$) with a Ag(111) surface: validity of the energy sudden approximation 191 (1987) 203
C.T. Rettner, J. Kimman, F. Fabre, D.J. Auerbach and H. Morawitz, Direct vibrational excitation in gas–surface collisions of NO with Ag(111) 192 (1987) 107
F. Budde, A. Mödl, A.V. Hamza, P.M. Ferm and G. Ertl, State-resolved investigation of the dynamics of scattering and formation of NO at Ge surfaces 192 (1987) 507
A. Danon, E. Kolodney and A. Amirav, Dissociation and ionization in hyperthermal 1-iodopropane–diamond scattering 193 (1988) 132
A. Kara and A.E. DePristo, Dynamics of dissociative chemisorption: N_2/W(110) 193 (1988) 437

J.D. Beckerle, Q.Y. Yang, A.D. Johnson and S.T. Ceyer, The adsorption of CO and O_2 on Ni(111) at 8 K 195 (1988) 77
G.D. Billing, Laser-assisted molecule–surface collisions 195 (1988) 187
P.M. Agrawal, D.L. Thompson and L.M. Raff, Computational studies of heterogeneous reactions of SiH_2 on Si(111) surfaces 195 (1988) 283
P.J. van den Hoek, T.C.M. Horn and A.W. Kleyn, Classical trajectories harpooning and dissociation for O_2 scattering from Ag(111) 198 (1988) L335
N.L. Liu, B.H. Choi and X. Shen, Selective adsorption of H_2 + Cu(001) surface. I. A quasiclassical trajectory study 198 (1988) 79
B.H. Choi, N.L. Liu and X. Shen, Selective adsorption of H_2 + Cu(001) surface. II. Quantum mechanical calculation of quasibound compound states 198 (1988) 99
W.T. Tysoe and R.M. Lambert, Structure and reactivity at the halogen/metal interface: chemisorption, corrosion and reaction pathways in the Pd(111)–Cl_2 system 199 (1988) 1
A.V. Hamza, P.M. Ferm, F. Budde and G. Ertl, The dynamics of NO scattering from NO- and CO-covered Ni(100) 199 (1988) 13

Molybdenum

A. Gellman, W.T. Tysoe, F. Zaera and G.A. Somorjai, A UPS and XPS investigation of the adsorption of sulfur on Mo(100): adsorption site and lateral interactions 191 (1987) 271
V. Heine and J.J.A. Shaw, The microscopic origin of incommensurate phases on (001) surfaces of Mo and W 193 (1988) 153
A. Pavlovska, H. Steffen and E. Bauer, A comparison of thermal desorption techniques at high temperatures: Au on Mo(110) 195 (1988) 207
H. Gnaser and I.D. Hutcheon, Preferential emission of lighter isotopes in the initial stage of sputtering 195 (1988) 499
J.T. Roberts and C.M. Friend, Vibrational studies of 1-propanethiol on Mo(110). Spectroscopic evidence for low temperature thiolate formation 198 (1988) L321
G.S. Tompa, W.E. Carr and M. Seidl, Work function of metallic surfaces bombarded with cesium ions 198 (1988) 431
P.K. Stefanov and Ts.S. Marinova, HREELS study of the interaction of oxygen with a Mo(111) surface 200 (1988) 26
J. Kołaczkiewicz, Measurement of work function changes as a research method for structural phase transitions in adsorbate islands: Cu/Mo(011) 200 (1988) 335

Molybdenum oxide

N. Floquet and O. Bertrand, Onset of oxidation of the non-stoichiometric molybdenum oxide $Mo_{18}O_{52}$(100) surface at low temperatures: a study by RHEED 198 (1988) 449

Molybdenum sulphide

Hu Yongjun and Lin Zhangda, Electronic structure and the interactions of Ni and Fe on the ion sputtered basal faces of MoS_2 single crystal 192 (1987) 283

Naphtalene, see Organic substances

Neutron scattering

M. Monkenbusch and H.J. Lauter, Structure and dynamics of an 2D hydrogen bonded adlayer – imidazole on grafoil 191 (1987) 547
J.M. Nicol, J.J. Rush and R.D. Kelley, Inelastic neutron scattering studies of the interaction of hydrogen with palladium black 197 (1988) 67

Nickel

M.J. Dresser, A.-M. Lanzillotto, M.D. Alvey and J.T. Yates, Jr., Interaction between NH_3 and CO on the Ni(111) and (110) surfaces: a study by ESDIAD 191 (1987) 1
A.-M. Lanzillotto, M.J. Dresser, M.D. Alvey and J.T. Yates, Jr., The epitaxial formation of adsorbed multilayers as studied by ESDIAD: NH_3 adsorption on top of chemisorbed CO on nickel crystal surfaces 191 (1987) 15
J. Bauhofer, M. Hock and J. Küppers, Vibrational spectroscopy of CO at Ni(110): adsorption energy at adsorption sites 191 (1987) 395
P.M. Blass, S. Akhter and J.M. White, The adsorption and decomposition of benzene on Ni(100) and the effects of pre-adsorbed C, O, H, and CO 191 (1987) 406
S. Lehwald, F. Wolf, H. Ibach, B.M. Hall and D.L. Mills, Surface vibrations on Ni(110): the role of surface stress 192 (1987) 131
K. Kishi, Reaction of O_2 and $C_6H_5NO_2$ with Fe/Ni(100) surface studied by XPS 192 (1987) 210
Hu Yongjun and Lin Zhangda, Electronic structure and the interactions of Ni and Fe on the ion sputtered basal faces of MoS_2 single crystal 192 (1987) 283
J.N. Andersen, Comment on 'On the structure of chemisorbed sulphur overlayers on Ni(100)' by W. Daum 192 (1987) L866
W. Daum, Reply to "Comment on 'On the structure of chemisorbed sulphur overlayers on Ni(100)'" by J.N. Andersen 192 (1987) L871
G.L. Kellogg, The mobility and structure of nickel atoms on the (100) plane of tungsten 192 (1987) L879
G.R. Schoofs and J.B. Benziger, Reactions of pyrrole with Ni(100) 192 (1987) 373
J.N. Andersen, Adsorption of H_2S on Ni(100): kinetics and structure 192 (1987) 583
P.L. De Andres, P.J. Rous and J.B. Pendry, Phonon scattering in diffuse LEED 193 (1988) 1
H.J. Elmers and U. Gradmann, Magnetometric analysis of the interaction of Ni(111) with oxygen 193 (1988) 94
W. Reimer, Th. Fink and J. Küppers, Inverse photoemission spectroscopy of H, CO and NO adsorbed at Ni(100) and Ni(111) surfaces 193 (1988) 259
N.Q. Lam and H.A. Hoff, Surface and subsurface composition changes in Ni–Si alloys during elevated-temperature sputtering 193 (1988) 353
G. Akinci, T.R. Ohno and E.D. Williams, $NiSi_2$ on Si(111). I. Effects of substrate cleaning procedure and reconstruction 193 (1988) 534
K. Kato, T. Ide, S. Miura, A. Tamura and T. Ichinokawa, Si(100)$2 \times n$ structures induced by Ni contamination 194 (1988) L87
C.S. Sass and J.W. Rabalais, Chemisorption of carbonyl sulfide (OCS) on Ni between 77 and 293 K 194 (1988) L95

C. Benndorf and T.E. Madey, Adsorption of H_2O on clean and oxygen-predosed Ni(110) 194 (1988) 63
F. Zaera, D.A. Fischer, S. Shen and J.L. Gland, Fluorescence yield near-edge X-ray absorption spectroscopy under atmospheric conditions: CO and H_2 coadsorption on Ni(100) at pressures between 10^{-9} and 0.1 Torr 194 (1988) 205
H. Yamamoto, T. Kikuchi and K. Furuya, The primary ion energy dependence of the analyzing depth in SIMS measurements 194 (1988) 217
X.-L. Zhou and J.M. White, Adsorption and decomposition of methyl halides on Ni(100): a TPD, SIMS and AES study 194 (1988) 438
D.A. Harrington and P.R. Norton, Activated adsorption of deuterium on Ni(110): evidence for a high temperature desorption state 195 (1988) L135
X.-Y. Zhu, S. Akhter, M.E. Castro and J.M. White, Kinetic studies using static SIMS: H_2 adsorption on Ni(100) 195 (1988) L145
T.S. Kusuma and A.L. Companion, An EHMO study of the interaction of CO molecules adsorbed on a Ni(111) surface with neighboring CO molecules, H atoms and O atoms 195 (1988) 59
J.D. Beckerle, Q.Y. Yang, A.D. Johnson and S.T. Ceyer, The adsorption of CO and O_2 on Ni(111) at 8 K 195 (1988) 77
R. Lamber, N. Jaeger and G. Schulz-Ekloff, Electron microscopy study of the interaction of Ni, Pd and Pt with carbon. I. Nickel catalyzed graphitization of amorphous carbon 197 (1988) 402
E.H. Conrad, L.R. Allen, D.L. Blanchard and T. Engel, Energy resolved measurements of the diffuse scattering near the roughening transition of Ni(113) 198 (1988) 207
A.V. Hamza, P.M. Ferm, F. Budde and G. Ertl, The dynamics of NO scattering from NO- and CO-covered Ni(100) 199 (1988) 13
D. Heskett, The interaction range in alkali metal-promoted systems 199 (1988) 67
L. Westerlund, L. Jönsson and S. Andersson, Hydrogen recombination and Σ-desorption from the Ni(100)-H-CO coadsorption system 199 (1988) 109
M. Sagurton, P. Xu, R.F. Garrett and G.P. Williams, Determination of the energy of the σ level for CO adsorbed on Ni(001) using both Auger and direct photoemission 199 (1988) L413
D.A. Wesner, F.P. Coenen and H.P. Bonzel, Amplitude anisotropy of the bending vibration of CO adsorbed on Ni(110) 199 (1988) L419
S.G. Davison, S.M. Bose and K.W. Sulston, Chemisorption on supported-metal catalysts 200 (1988) 265
R. Błaszczyszyn and M. Błaszczyszynowa, Diffusion of nickel on the (110) region of a tungsten field emitter 200 (1988) 354
J. Auleytner, Bremsstrahlung isochromat spectroscopy in the study of surfaces 200 (1988) 504

Niobium

A. Wucher and H. Oechsner, Emission energy dependence of ionization probabilities in secondary ion emission from oxygen covered Ta, Nb and Cu surfaces 199 (1988) 567

Nitric oxide

G.C. Corey, J.E. Smedley, M.H. Alexander and W.-K. Liu, Collisions of NO($X\ ^2\Pi$) with a Ag(111) surface: validity of the energy sudden approximation 191 (1987) 203

C.T. Rettner, J. Kimman, F. Fabre, D.J. Auerbach and H. Morawitz, Direct vibrational excitation in gas–surface collisions of NO with Ag(111) 192 (1987) 107
F. Budde, A. Mödl, A.V. Hamza, P.M. Ferm and G. Ertl, State-resolved investigation of the dynamics of scattering and formation of NO at Ge surfaces 192 (1987) 507
W. Reimer, Th. Fink and J. Küppers, Inverse photoemission spectroscopy of H, CO and NO adsorbed at Ni(100) and Ni(111) surfaces 193 (1988) 259
A. Hoffman, T. Maniv and M. Folman, EELS studies of adsorption of O_2 and NO on Al(100) 193 (1988) 513
A.G.B.M. Sasse, D.G. Lakerveld and A. van Silfhout, The adsorption of nitric oxide on a silicon (100) 2×1 surface studied with Auger electron spectroscopy 195 (1988) L167
A.V. Hamza, P.M. Ferm, F. Budde and G. Ertl, The dynamics of NO scattering from NO- and CO-covered Ni(100) 199 (1988) 13
A.G.B.M. Sasse, P.M. Kleinherenbrink and A. van Silfhout, Missing dimer defects investigated by adsorption of nitric oxide (NO) on silicon (100) 2×1 199 (1988) 243
I. NoorBatcha, R.R. Lucchese and Y. Zeiri, Anisotropic translational energy distribution due to gas-phase collisions in rapid desorption of molecules from surfaces 200 (1988) 113

Nitrogen

G. Haase and M. Asscher, Adsorption and dissociation of N_2 on rhenium single crystal surfaces 191 (1987) 75
K. Jacobi, Work-function changes and photoemission final-state relaxation of Ne, Ar, Kr, Xe, H_2 and N_2 on gallium 192 (1987) 499
P.A. Dowben, A. Miller, H.-J. Ruppender and M. Grunze, The influence of surface metal composition of Fe–Cr alloys on the dissociative adsorption of N_2 193 (1988) 336
A. Kara and A.E. DePristo, Dynamics of dissociative chemisorption: N_2/W(110) 193 (1988) 437
D. Heskett, A. Baddorf and E.W. Plummer, Nitrogen-induced reconstruction of Cu(110): formation of a surface nitride 195 (1988) 94
X.D. Peng, D.S. Edwards and M.A. Barteau, Reactions of O_2 and H_2O with magnesium nitride films 195 (1988) 103
T. Matsushima, Angular distribution of the combinative desorption of nitrogen atoms on Ru(001) surfaces 197 (1988) L287
H.-Y. Kim, M.W. Cole, F. Toigo and D. Nicholson, Dispersion interaction between adsorbed linear molecules 198 (1988) 555
R.A. Thuraisingham and W.J. Meath, Orientationally averaged spectra. An application to molecules adsorbed on a surface 199 (1988) 199
L. Lajtar, A. Patrykiejew and S. Sokołowski, Evaluation of the phase diagram for nitrogen adsorbed on graphite by means of the density functional theory 200 (1988) 298

Nitrous oxide

K. Uno, A. Namiki, S. Zaima, T. Nakamura and N. Ohtake, XPS study of the oxidation process of Si(111) via photochemical decomposition of N_2O by an UV excimer laser 193 (1988) 321

Noble gases

M. Karimi and G. Vidali, Long range interaction between hydrogen and rare gas atoms with surfaces of III–V semiconductors 191 (1987) L799
D.H. Ehlers, A.P. Esser, A. Spitzer and H. Lüth, Coadsorption of CO with methanol, water and xenon on Pt(111): band suppression in vibrational spectroscopy 191 (1987) 466
K. Jacobi, Work-function changes and photoemission final-state relaxation of Ne, Ar, Kr, Xe, H_2 and N_2 on gallium 192 (1987) 499
D. Fargues, J.J. Ehrhardt, M. Abon and J.C. Bertolini, Photoemission of adsorbed xenon on $Pt_xNi_{1-x}(111)$ single crystal alloy surfaces 194 (1988) 149
A. Cassuto, J.J. Ehrhardt, J. Cousty and R. Riwan, Angle-resolved photoemission of xenon adsorbed on Pt(111): the $(\sqrt{3} \times \sqrt{3})R30°$ commensurate layer 194 (1988) 579
H. Stenschke, Superfluidity and film formation of ^4He on metal surfaces 195 (1988) 133
S. Joyce, J.G. Langan and J.I. Steinfeld, Reactions of XeF_2 with thermally grown SiO_2 195 (1988) 270
K. Kern, R. David, P. Zeppenfeld and G. Comsa, Registry effects in the thermodynamic quantities of Xe adsorption on Pt(111) 195 (1988) 353
W.E. Packard and M.B. Webb, Xenon and krypton adsorption on Ge(111) 195 (1988) 371
H.-W. Jiang, M.A. Stan and A.J. Dahm, Phase diagrams and melting in a screened two-dimensional system: electrons on helium films 196 (1988) 1
M. Saitoh, Melting and transport properties of two-dimensional Wigner crystals on liquid He 196 (1988) 8
D.C. Glattli, E.Y. Andrei and F.I.B. Williams, Specific and latent heat of the 2D electron solid 196 (1988) 17
L. Wilen and R. Giannetta, Cyclotron resonance of the 2D electron crystal 196 (1988) 24
K. Kajita, Nonlinear transport phenomena of crystallized electrons formed on liquid helium film 196 (1988) 29
C.J. Mellor, C.M. Muirhead, J. Traverse and W.F. Vinen, The search for crystallization of a two-dimensional pool of ions trapped below the surface of superfluid ^4He 196 (1988) 33
J.M. Goodkind, G.F. Saville, A.E. Ruckenstein and P.M. Platzman, Escape rates of electrons from the surface of liquid helium 196 (1988) 38
T. Mandel, M. Domke and G. Kaindl, Layer-resolved band dispersion of rare-gas multilayers on graphite(001) 197 (1988) 81
M.J. Bojan and W.A. Steele, Computer simulation of physisorption on a heterogeneous surface 199 (1988) L395
C. Astaldi and K. Jacobi, Photoemission from xenon clusters on barium 200 (1988) 15
N. Ernst, Field enhanced adsorption 200 (1988) 275

Nucleation

A.D. Gates and J.L. Robins, Heterogeneous nucleation on cleavage steps. II. Additional theory 191 (1987) 492
A.D. Gates and J.L. Robins, Heterogeneous nucleation on cleavage steps. III. Comparison of experiment and theory 191 (1987) 499
A.J. Melmed and N.D. Shinn, Nucleation and epitaxial growth of Cr crystals on stepped W surfaces with low-index facets 193 (1988) 475
M.H. Grabow and G.H. Gilmer, Thin film growth modes, wetting and cluster nucleation 194 (1988) 333

R. Altsinger, H. Busch, M. Horn and M. Henzler, Nucleation and growth during molecular beam epitaxy (MBE) of Si on Si(111) 200 (1988) 235

Organic substances

M. Monkenbusch and H.J. Lauter, Structure and dynamics of an 2D hydrogen bonded adlayer – imidazole on grafoil 191 (1987) 547
K. Kishi, Reaction of O_2 and $C_6H_5NO_2$ with Fe/Ni(100) surface studied by XPS 192 (1987) 210
P. Yannoulis, E.E. Koch and M. Lähdeniemi, Electronic structure and orientation of tetracene on Cu(100) 192 (1987) 299
G.R. Schoofs and J.B. Benziger, Reactions of pyrrole with Ni(100) 192 (1987) 373
H. Dannetun, I. Lundström and L.-G. Petersson, Reactions between hydrocarbons and an oxygen covered palladium surface 193 (1988) 109
A. Danon, E. Kolodney and A. Amirav, Dissociation and ionization in hyperthermal 1-iodopropane–diamond scattering 193 (1988) 132
J.G. Chen, P. Basu, L. Ng and J.T. Yates, Jr., A comparative study of the reactivities of H_2O, CH_3OH, and CH_3OCH_3 toward Al(111) 194 (1988) 397
X.-L. Zhou and J.M. White, Adsorption and decomposition of methyl halides on Ni(100): a TPD, SIMS and AES study 194 (1988) 438
J.A. Rodriguez and C.T. Campbell, A quantum-chemical study of the chemisorption of ammonia, pyridine, formaldehyde, formate, and methoxy on ZnO(0001) 194 (1988) 475
S.M. Gates, Adsorption kinetics of SiH_4, Si_2H_6 and Si_3H_8 on the Si(111)-(7 × 7) surface 195 (1988) 307
J.L. Davis and M.A. Barteau, The influence of oxygen on the selectivity of alcohol conversion on the Pd(111) surface 197 (1988) 123
D. Heskett, L.E. Urbach, K.J. Song, E.W. Plummer and H.L. Dai, Oxygen and pyridine on Ag(110) studied by second harmonic generation: coexistence of two phases within monolayer pyridine coverage 197 (1988) 225
Y.T. Wang and K.C. Lee, The correlation between surface plasma resonance and surface enhanced Raman scattering 197 (1988) 239
N.J. Tro and S.M. George, Temperature-programmed spectroscopy for surface kinetic analysis: absorption and laser-induced fluorescence techniques 197 (1988) L246
J.A. Rodriguez and C.T. Campbell, A quantum-chemical study of the adsorption of water, formaldehyde and ammonia on copper surfaces and water on ZnO(0001) 197 (1988) 567
J.T. Roberts and C.M. Friend, Vibrational studies of 1-propanethiol on Mo(110). Spectroscopic evidence for low temperature thiolate formation 198 (1988) L321
W.R. Salaneck, R. Bergman, J.-E. Sundgren, A. Rockett, T. Motooka and J.E. Greene, Adsorption of tri-methyl aluminum molecules on silicon 198 (1988) 461
Y. Gao and T. Lopez-Rios, Raman scattering of pyridine coadsorbed with Al on quenched Ag films: evidence of Raman enhancement in the pores 198 (1988) 509
F.P. Netzer, E. Bertel and A. Goldmann, Structure and surface chemistry of 5-membered cyclic molecules on Rh(111): pyrrole 199 (1988) 87
M.C. Zonnevylle, R. Hoffmann and S. Harris, Thiophene hydrodesulfurization on MoS_2; theoretical aspects 199 (1988) 320
S. Modak and B.C. Khanra, Studies on the effect of surface segregation on hydrocarbon conversion over Cu–Ni alloys 199 (1988) 361

D.N. Belton and S. J. Schmieg, Interaction of $[Rh(CO)_2Cl]_2$ with O_2 oxidized Al(100): effect of Al_2O_3 preparation on $[Rh(CO)_2Cl]_2$ decomposition 199 (1988) 518
R. Superfine, P. Guyot-Sionnest, J.H. Hunt, C.T. Kao and Y.R. Shen, Surface vibrational spectroscopy of molecular adsorbates on metals and semiconductors by infrared–visible sum-frequency generation 200 (1988) L445
G. Comelli and J. Stöhr, SEXAFS studies of C–C bond lengths in condensed and chemisorbed molecules 200 (1988) 35

Oxidation

A.M. Venezia and C.M. Loxton, Low pressure oxidation of Ni_3Al alloys at elevated temperatures as studied by X-ray photoelectron spectroscopy and Auger spectroscopy 194 (1988) 136

Oxides

S.Y. Yousif and H.A. Kassim, Anionic dipole polarizabilities at the surfaces of alkaline earth oxides and sulfides 197 (1988) 509
D. Scarano, A. Zecchina and A. Reller, IR study of CO adsorption on α-Cr_2O_3 198 (1988) 11
V.M. Allen, W.E. Jones and P.D. Pacey, A molecular orbital study of carbon monoxide adsorption on a MnO surface 199 (1988) 309

Oxygen

V.M. Castaño and W. Krakow, Observation of the epitaxy, oxidation and surface structure of copper on thin gold films by high resolution electron microscopy 191 (1987) 45
F.T. Wagner and T.E. Moylan, A comparison between water adsorbed on Rh(111) and Pt(111), with and without predosed oxygen 191 (1987) 121
C. Palacio, J.M. Sanz and J.M. Martinez-Duart, Low energy electron emission and EELS of clean and oxidised zirconium 191 (1987) 385
P.M. Blass, S. Akhter and J.M. White, The adsorption and decomposition of benzene on Ni(100) and the effects of pre-adsorbed C, O, H, and CO 191 (1987) 406
F. Solymosi, J. Kiss and I. Kovács, Adsorption of HCOOH on Rh(111) and its reaction with preadsorbed oxygen 192 (1987) 47
K. Morishige, K. Mimata and S. Kittaka, X-ray study of oxygen monolayers on graphite 192 (1987) 197
K. Kishi, Reaction of O_2 and $C_6H_5NO_2$ with Fe/Ni(100) surface studied by XPS 192 (1987) 210
H.R. Siddiqui, A. Winkler, X. Guo, P. Hagans and J.T. Yates, Jr., Chemisorption site retention during thermal desorption – a study of O_2 chemisorption on Pt(112) 193 (1988) L17
P.L. De Andres, P.J. Rous and J.B. Pendry, Phonon scattering in diffuse LEED 193 (1988) 1
A. Hoffman, T. Maniv and M. Folman, A study of O_2 adsorption on α-Cu–Al(100) surfaces of different Al concentrations by means of AES and XPS 193 (1988) 57
R.J. Lad and V.E. Henrich, Structure of α-Fe_2O_3 single crystal surfaces following Ar^+ ion bombardment and annealing in O_2 193 (1988) 81

H.J. Elmers and U. Gradmann, Magnetometric analysis of the interaction of Ni(111) with oxygen 193 (1988) 94
H. Dannetun, I. Lundström and L.-G. Petersson, Reactions between hydrocarbons and an oxygen covered palladium surface 193 (1988) 109
C.O. de González and E.A. García, An X-ray photoelectron spectroscopy study of the surface oxidation of zirconium 193 (1988) 305
A. Hoffman, T. Maniv and M. Folman, EELS studies of adsorption of O_2 and NO on Al(100) 193 (1988) 513
E.D. Fleischmann and J.E. Adams, Dynamics of a Langmuir–Hinshelwood-type recombination reaction 193 (1988) 593
C. Benndorf and T.E. Madey, Adsorption of H_2O on clean and oxygen-predosed Ni(110) 194 (1988) 63
V.N. Ageev, O.P. Burmistrova and B.V. Yakshinskii, Electron-stimulated alkali metal desorption from the oxygen monolayer-covered tungsten surface 194 (1988) 101
P.H. McBreen, S. Moore, A. Adnot and D. Roy, SIMS study of the interaction of CO and O_2 with K adsorbed on Au 194 (1988) L112
T.J. Vink, M. Bolech, O.L.J. Gijzeman and J.W. Geus, The reactivity of the graphite overlayer on Fe(110) towards oxygen 194 (1988) 559
W. Segeth, J.H. Wijngaard and G.A. Sawatzky, The electronic structure of a new c(2×2) oxygen phase on Ag(110) 194 (1988) 615
T.S. Kusuma and A.L. Companion, An EHMO study of the interaction of CO molecules adsorbed on a Ni(111) surface with neighboring CO molecules, H atoms and O atoms 195 (1988) 59
J.D. Beckerle, Q.Y. Yang, A.D. Johnson and S.T. Ceyer, The adsorption of CO and O_2 on Ni(111) at 8 K 195 (1988) 77
X.D. Peng, D.S. Edwards and M.A. Barteau, Reactions of O_2 and H_2O with magnesium nitride films 195 (1988) 103
H.J.W. Zandvliet and A. van Silfhout, Surface states on clean Ge(111) surfaces 195 (1988) 138
T.M. Parrill, Y.W. Chung and K.A. Stair, The effect of oxygen exposure on subsequent deposition of thin gold films on clean InP($\bar{1}\bar{1}\bar{1}$) surfaces 195 (1988) 443
J.L. Davis and M.A. Barteau, The influence of oxygen on the selectivity of alcohol conversion on the Pd(111) surface 197 (1988) 123
S. Ladas, R. Imbihl and G. Ertl, Microfacetting of a Pt(110) surface during catalytic CO oxidation 197 (1988) 153
M. Cotter, S. Campbell, R.G. Egdell and W.C. Mackrodt, Growth of ordered BaO overlayers on MgO(001) 197 (1988) 208
D. Heskett, L.E. Urbach, K.J. Song, E.W. Plummer and H.L. Dai, Oxygen and pyridine on Ag(110) studied by second harmonic generation: coexistence of two phases within monolayer pyridine coverage 197 (1988) 225
G.E. Mitchell, M.A. Schulz and J.M. White, The reaction of H_2S with adsorbed oxygen atoms on platinum (111) 197 (1988) 379
S.A. Jansen and R. Hoffmann, Surface chemistry of transition metal carbides: a theoretical analysis 197 (1988) 474
K. Prabhakaran and C.N.R. Rao, Comment on 'Oxygen chemisorption on Cu(110)' by J.M. Mundenar, A.P. Baddorf, E.W. Plummer, L.G. Sneddon, R.A. DiDio and D.M. Zehner 198 (1988) L307
J.M. Mundenar, E.W. Plummer, L.G. Sneddon, A.P. Baddorf, D.M. Zehner and G.R. Gruzalski, Reply to "Comment on 'Oxygen chemisorption on Cu(110)'" by K. Prabhakaran and C.N.R. Rao 198 (1988) L309

P.J. van den Hoek, T.C.M. Horn and A.W. Kleyn, Classical trajectories harpooning and dissociation for O_2 scattering from Ag(111) 198 (1988) L335
S. Ladas, R. Imbihl and G. Ertl, Kinetic oscillations and facetting during the catalytic CO oxidation on Pt(110) 198 (1988) 42
P. Légaré, G. Lindauer, L. Hilaire, G. Maire, J.-J. Ehrhardt, J. Jupille, A. Cassuto, C. Guillot and J. Lecante, On the interaction of O_2 with Pt(111) and Pt(557) surfaces: core-level shift study using conventional and synchrotron radiation sources 198 (1988) 69
M.A. Karolewski and R.G. Cavell, An ion-induced crystal current study of clean, sulphided and oxidized Cu(100) 198 (1988) 118
J.C. Schultz, C.A. Colmenares, J. Naegele and J.C. Spirlet, X-ray photoelectron spectroscopic study of the surface reactions of UFe_2 with O_2, CO and CO_2 198 (1988) 301
G. Odörfer, E.W. Plummer, H.-J. Freund, H. Kuhlenbeck and M. Neumann, On the electronic structure of the coadsorbate system CO + O (2×1) /Pd(111): a precursor for CO_2 formation 198 (1988) 331
R. Souda, C. Oshima, S. Otani, Y. Ishizawa and M. Aono, Structure analysis of oxygen adsorbed TiC(111) by impact collision ion scattering spectroscopy 199 (1988) 154
Bao Xinhe, Dong Shuzhong and Deng Jingfa, Adsorption of oxygen on electrolytic silver by UPS and work function measurement 199 (1988) 493
D.A. Asbury and G.B. Hoflund, The influence of annealing and low-pressure oxygen exposure on a sputtered Pt_3Sn alloy surface. III 199 (1988) 552
A. Wucher and H. Oechsner, Emission energy dependence of ionization probabilities in secondary ion emission from oxygen covered Ta, Nb and Cu surfaces 199 (1988) 567
K.C. Prince, K. Dückers, K. Horn and V. Cháb, Orientation of molecular oxygen on Pt(110) 200 (1988) L451
A. Klekamp, H. Donnerberg, W. Heiland and K.J. Snowdon, Electron bombardment induced desorption of oxygen from $LiNbO_3$ 200 (1988) L465
W.T. Tysoe, F. Zaera and G.A. Somorjai, An XPS study of the oxidation and reduction of the rhenium–platinum system under atmospheric conditions 200 (1988) 1
P.K. Stefanov and Ts.S. Marinova, HREELS study of the interaction of oxygen with a Mo(111) surface 200 (1988) 26

Palladium

F. Besenbacher, I. Stensgaard and K. Mortensen, Adsorption position of deuterium on the Pd(100) surface determined with transmission channeling 191 (1987) 288
B. Schleich, D. Schmeisser and W. Göpel, Structure and reactivity of the system $Si/SiO_2/Pd$: a combined XPS, UPS and HREELS study 191 (1987) 367
A.M. Lahee, J.P. Toennies and Ch. Wöll, A helium atom scattering study of force constant changes on the Pd(110) surface 191 (1987) 529
M.R. Albert and J.T. Yates, Jr., Evidence for a surface vacancy requirement in the formation of ethylidyne from ethylene on Pd particles 192 (1987) 225
H.A.C.M. Hendrickx and V. Ponec, Effects of alloying and coadsorption: an IR study 192 (1987) 234
H. Dannetun, I. Lundström and L.-G. Petersson, Reactions between hydrocarbons and an oxygen covered palladium surface 193 (1988) 109

B. Frick, K. Jacobi, J.A. Wilder, H.J. Sagner and K.H. Frank, Inverse photoemission of Pd grown on Al(111) 193 (1988) 529
M.L. Burke and R.J. Madix, SO_2 structure and reactivity on clean and sulfur modified Pd(100) 194 (1988) 223
J.-W. He and P.R. Norton, Fractional-order desorption of D_2 from a Pd(110) surface 195 (1988) L199
J.L. Davis and M.A. Barteau, The influence of oxygen on the selectivity of alcohol conversion on the Pd(111) surface 197 (1988) 123
R. Lamber, N. Jaeger and G. Schulz-Ekloff, Electron microscopy study of the interaction of Ni, Pd and Pt with carbon. I. Nickel catalyzed graphitization of amorphous carbon 197 (1988) 402
G. Odörfer, E.W. Plummer, H.-J. Freund, H. Kuhlenbeck and M. Neumann, On the electronic structure of the coadsorbate system CO + O (2×1) /Pd(111): a precursor for CO_2 formation 198 (1988) 331
J.S. Somers, M.E. Kordesch, R. Hemmen, Th. Lindner, H. Conrad and A.M. Bradshaw, An angle-resolved photoemission investigation of CN, HCN and C_2N_2 adsorbed on Pd{111} using synchrotron radiation 198 (1988) 400
J.-W. He, D.A. Harrington, K. Griffiths and P.R. Norton, The interaction of hydrogen with a Pd(100) surface 198 (1988) 413
W.T. Tysoe and R.M. Lambert, Structure and reactivity at the halogen/metal interface: chemisorption, corrosion and reaction pathways in the Pd(111)–Cl_2 system 199 (1988) 1
T.T. Tsong, H.M. Liu, Q.J. Gao, Y. Liou and D.L. Feng, Atomic structures of silicon and metal surfaces; pulsed-laser TOF atom-probe and field ion microscopy 200 (1988) 220
J. Auleytner, Bremsstrahlung isochromat spectroscopy in the study of surfaces 200 (1988) 504

Phosphorus

G.E. Mitchell, M.A. Henderson and J.M. White, The adsorption of PH_3 on Pt(111) and its influence on coadsorbed CO 191 (1987) 425
W. Arabczyk, M. Militzer, H.-J. Müssig and J. Wieting, Contribution of pipe diffusion to surface segregation kinetics 198 (1988) 167
P. Godowski, Surface composition of $Co_{79}Ru_{21}$ alloy contaminated with phosphorus measured by AES 200 (1988) 260

Photoconductivity

P. Salvador, Subbandgap photoresponse of n-TiO_2 electrodes: transient photocurrent–time behaviour 192 (1987) 36
M.R. Kozlowski, P.S. Tyler, W.H. Smyrl and R.T. Atanasoski, Photoelectrochemical microscopy of oxide films on metals: Ti/TiO_2 interface 194 (1988) 505
G.L.J.A. Rikken, P. Wyder, K. Ploog, J.M. Chamberlain, R.T. Grimes and G. Hill, Nanosecond far infra red magnetospectroscopy of GaAs/AlGaAs heterostructures 196 (1988) 303
F.F. Fang, T.P. Smith, III and S.L. Wright, Landau-level broadening and scattering time in modulation doped GaAs/AlGaAs heterostructures 196 (1988) 310
K. Pater, Silicon work function in Al–SiO_2–Si system 200 (1988) 187

Photodesorption

Z. Ying and W. Ho, Thermal and photon induced reactions of CH_3CH_2OH on Si(111)7 × 7 198 (1988) 473

Photoelectron spectroscopy

J. Hrbek, T.K. Sham and M.-L. Shek, Electronic structure of Mn overlayers on the Ru(001) surface 191 (1987) L772
F.T. Wagner and T.E. Moylan, A comparison between water adsorbed on Rh(111) and Pt(111), with and without predosed oxygen 191 (1987) 121
C. Ocal and S. Ferrer, Low temperature diffusion of Pt and Au atoms through thin TiO_2 films on a Ti substrate 191 (1987) 147
A. Gellman, W.T. Tysoe, F. Zaera and G.A. Somorjai, A UPS and XPS investigation of the adsorption of sulfur on Mo(100): adsorption site and lateral interactions 191 (1987) 271
P. Hofmann and D. Menzel, Angular-resolved photoemission of formate and methoxy on Cu(110): orientation and orbital assignment using dipole selection rules 191 (1987) 353
B. Schleich, D. Schmeisser and W. Göpel, Structure and reactivity of the system $Si/SiO_2/Pd$: a combined XPS, UPS and HREELS study 191 (1987) 367
H. Onishi, C. Egawa, T. Aruga and Y. Iwasawa, Adsorption of Na atcms and oxygen-containing molecules on MgO(100) and (111) surfaces 191 (1987) 479
K. Cho and Y. Miyamoto, Polarization-dependent angular distribution of resonant photoemission from GaAs(110) surface core exciton 192 (1987) L835
F. Solymosi, J. Kiss and I. Kovács, Adsorption of HCOOH on Rh(111) and its reaction with preadsorbed oxygen 192 (1987) 47
W. Ranke, H.J. Kuhr and J. Finster, Orientation and temperature dependent adsorption of H_2S on GaAs: valence band photoemission 192 (1987) 81
M. Bowker, B. Wolfindale, D.A. King and G. Lamble, The coadsorption of K and Cl on Ag(100): electronic, kinetic and thermodynamic surface modification by promotion 192 (1987) 95
K. Kishi, Reaction of O_2 and $C_6H_5NO_2$ with Fe/Ni(100) surface studied by XPS 192 (1987) 210
R.G. Egdell, S. Eriksen and W.R. Flavell, A spectroscopic study of electron and ion beam reduction of SnO_2(110) 192 (1987) 265
Hu Yongjun and Lin Zhangda, Electronic structure and the interactions of Ni and Fe on the ion sputtered basal faces of MoS_2 single crystal 192 (1987) 283
P. Yannoulis, E.E. Koch and M. Lähdeniemi, Electronic structure and orientation of tetracene on Cu(100) 192 (1987) 299
Y.R. Wang and C.B. Duke, Surface reconstructions of ZnO cleavage faces 192 (1987) 309
P.A.P. Lindberg, L.I. Johansson and A.N. Christensen, Angle-resolved photoemission study of the electronic band structure of VC(100) 192 (1987) 353
P.A.P. Lindberg and L.I. Johansson, A surface state on VC(100) identified by photoelectron spectroscopy and gas adsorption studies 192 (1987) 366
J.E. Houston, C.H.F. Peden, P.J. Feibelman and D.R. Hamann, Analysis of CO–Cu bonding by observation of interface states on Cu/Ru bimetallic surfaces 192 (1987) 457
K. Jacobi, Work-function changes and photoemission final-state relaxation of Ne, Ar, Kr, Xe, H_2 and N_2 on gallium 192 (1987) 499

R. Hornstein, D. Schmeisser, W. Göpel and M. Kunst, Growth of ordered Al_2O_3-(1 × 1) passivation layers on InP(100) 192 (1987) 563
J.N. Andersen, Adsorption of H_2S on Ni(100): kinetics and structure 192 (1987) 583
J.A. Benson, J.C. Hansen, M.T. McEllistrem, W.D. Clendening and J.G. Tobin, An investigation of the Au/Ge(001) interface 193 (1988) L37
H. Onishi, T. Aruga, C. Egawa and Y. Iwasawa, Adsorption of CH_3OH, HCOOH and SO_2 on TiO_2(110) and stepped TiO_2(441) surfaces 193 (1988) 33
R. Sporken, P. Xhonneux, R. Caudano and J.P. Delrue, The formation of the Al–InSb(110) interface 193 (1988) 47
A. Hoffman, T. Maniv and M. Folman, A study of O_2 adsorption on α-Cu–Al(100) surfaces of different Al concentrations by means of AES and XPS 193 (1988) 57
R.J. Lad and V.E. Henrich, Structure of α-Fe_2O_3 single crystal surfaces following Ar^+ ion bombardment and annealing in O_2 193 (1988) 81
C.O. de González and E.A. García, An X-ray photoelectron spectroscopy study of the surface oxidation of zirconium 193 (1988) 305
K. Uno, A. Namiki, S. Zaima, T. Nakamura and N. Ohtake, XPS study of the oxidation process of Si(111) via photochemical decomposition of N_2O by an UV excimer laser 193 (1988) 321
V.M. Dwyer and J.A.D. Matthew, Background intensity determination in AES/XPS 193 (1988) 549
F.S. Ohuchi, W. Jaegermann and B.A. Parkinson, XPS investigation of the reaction of SnS_2(0001) with Cu 194 (1988) L69
C.S. Sass and J.W. Rabalais, Chemisorption of carbonyl sulfide (OCS) on Ni between 77 and 293 K 194 (1988) L95
M. Iwami, T. Terada, H. Tochihara, M. Kubota and Y. Murata, Alloyed interface formation in the Au–Si(111)2 × 1 system studied by photoemission spectroscopy 194 (1988) 115
A.M. Venezia and C.M. Loxton, Low pressure oxidation of Ni_3Al alloys at elevated temperatures as studied by X-ray photoelectron spectroscopy and Auger spectroscopy 194 (1988) 136
D. Fargues, J.J. Ehrhardt, M. Abon and J.C. Bertolini, Photoemission of adsorbed xenon on Pt_xNi_{1-x}(111) single crystal alloy surfaces 194 (1988) 149
G. Pirug and H.P. Bonzel, Ordering of potassium overlayers on Pt(111) 194 (1988) 159
A. Cassuto, J.J. Ehrhardt, J. Cousty and R. Riwan, Angle-resolved photoemission of xenon adsorbed on Pt(111): the $(\sqrt{3} \times \sqrt{3})$R30° commensurate layer 194 (1988) 579
V. Hinkel, L. Sorba and K. Horn, Surface core level shifts of clean and hydrogen-covered InSb(110) 194 (1988) 597
W. Segeth, J.H. Wijngaard and G.A. Sawatzky, The electronic structure of a new c(2 × 2) oxygen phase on Ag(110) 194 (1988) 615
C. Egawa and Y. Iwasawa, Adsorption of CO and D_2 on Fe/Ru(001) surface 195 (1988) 43
X.D. Peng, D.S. Edwards and M.A. Barteau, Reactions of O_2 and H_2O with magnesium nitride films 195 (1988) 103
W. Radlik and H. Neddermeyer, UV photoemission study of the system Cu on Si(100)2 × 1 195 (1988) 195
S. Joyce, J.G. Langan and J.I. Steinfeld, Reactions of XeF_2 with thermally grown SiO_2 195 (1988) 270
P.H. McBreen, S. Serghini-Monim, D. Roy and A. Adnot, Decomposition of formic acid on FeTi 195 (1988) L208

F.T. Wagner, T.E. Moylan and S.J. Schmieg, Hydrophilic versus hydrophobic coadsorption: carbon monoxide and water on Rh(111) versus Pt(111) 195 (1988) 403
M.E. Levin, M. Salmeron, A.T. Bell and G.A. Somorjai, The characterization of Ti and Al oxide overlayers on rhodium and gold by XPS 195 (1988) 429
T.M. Parrill, Y.W. Chung and K.A. Stair, The effect of oxygen exposure on subsequent deposition of thin gold films on clean InP($\bar{1}\bar{1}\bar{1}$) surfaces 195 (1988) 443
T. Mandel, M. Domke and G. Kaindl, Layer-resolved band dispersion of rare-gas multilayers on graphite(001) 197 (1988) 81
E. Grossman, A. Bensaoula and A. Ignatiev, An XPS study of XeF_2 dry etching of tungsten silicide 197 (1988) 99
J.M. Vohs and M.A. Barteau, Spectroscopic characterization of surface formates produced via reaction of HCOOH and $HCOOCH_3$ on the (0001) surface of zinc oxide 197 (1988) 109
M. Cotter, S. Campbell, R.G. Egdell and W.C. Mackrodt, Growth of ordered BaO overlayers on MgO(001) 197 (1988) 208
K. Tamura, U. Bardi and Y. Nihei, An investigation by angular resolved X-ray photoelectron spectroscopy of strong metal–support interaction (SMSI) in the Pt/TiO_2 system 197 (1988) L281
P. Morgen, M. Szymonski, J. Onsgaard, B. Jørgensen and G. Rossi, Formation of the Pt–Si(111) interface 197 (1988) 347
C.T. Au, W. Hirsch and W. Hirschwald, Adsorption of carbon monoxide and carbon dioxide on annealed and defect zinc oxide (000$\bar{1}$) surfaces studied by photoelectron spectroscopy (XPS and UPS) 197 (1988) 391
R.W. Judd, M.A. Reichelt and R.M. Lambert, Carbon monoxide chemisorption on Pt-dosed W(100): Pt strained overlayers, Pt crystallites and W/Pt surface alloys 198 (1988) 26
P. Légaré, G. Lindauer, L. Hilaire, G. Maire, J.-J. Ehrhardt, J. Jupille, A. Cassuto, C. Guillot and J. Lecante, On the interaction of O_2 with Pt(111) and Pt(557) surfaces: core-level shift study using conventional and synchrotron radiation sources 198 (1988) 69
E.G. Michel, M.C. Asensio and S. Ferrer, Epitaxy of Pt on Au(001): growth mode, interface state and Pt core-level shifts 198 (1988) L365
J.C. Schultz, C.A. Colmenares, J. Naegele and J.C. Spirlet, X-ray photoelectron spectroscopic study of the surface reactions of UFe_2 with O_2, CO and CO_2 198 (1988) 301
S.D. Cameron and D.J. Dwyer, Charge transfer effects on CO bond cleavage: CO and potassium on Fe(100) 198 (1988) 315
G. Odörfer, E.W. Plummer, H.-J. Freund, H. Kuhlenbeck and M. Neumann, On the electronic structure of the coadsorbate system CO + O (2×1) /Pd(111): a precursor for CO_2 formation 198 (1988) 331
J.S. Somers, M.E. Kordesch, R. Hemmen, Th. Lindner, H. Conrad and A.M. Bradshaw, An angle-resolved photoemission investigation of CN, HCN and C_2N_2 adsorbed on Pd{111} using synchrotron radiation 198 (1988) 400
W.R. Salaneck, R. Bergman, J.-E. Sundgren, A. Rockett, T. Motooka and J.E. Greene, Adsorption of tri-methyl aluminum molecules on silicon 198 (1988) 461
H. Onishi, T. Aruga, C. Egawa and Y. Iwasawa, Modification of surface electronic structure on TiO_2(110) and TiO_2(441) by Na deposition 199 (1988) 54
D. Heskett, The interaction range in alkali metal-promoted systems 199 (1988) 67
F.P. Netzer, E. Bertel and A. Goldmann, Structure and surface chemistry of 5-membered cyclic molecules on Rh(111): pyrrole 199 (1988) 87

O. M'hamedi, F. Proix, J.P. Lacharme and C.A. Sébenne, Interaction of atomic hydrogen with InP(100): comparison with the cleaved surface interaction 199 (1988) 121
M. Sagurton, P. Xu, R.F. Garrett and G.P. Williams, Determination of the energy of the σ level for CO adsorbed on Ni(001) using both Auger and direct photoemission 199 (1988) L413
D.A. Wesner, F.P. Coenen and H.P. Bonzel, Amplitude anisotropy of the bending vibration of CO adsorbed on Ni(110) 199 (1988) L419
Bao Xinhe, Dong Shuzhong and Deng Jingfa, Adsorption of oxygen on electrolytic silver by UPS and work function measurement 199 (1988) 493
C.T. Au, W. Hirsch and W. Hirschwald, Adsorption and interaction of carbon dioxide, formic acid and hydrogen/carbon dioxide mixtures on $(10\bar{1}0)$ zinc oxide surfaces studied by photoelectron spectroscopy (XPS and UPS) 199 (1988) 507
D.N. Belton and S. J. Schmieg, Interaction of $[Rh(CO)_2Cl]_2$ with O_2 oxidized Al(100): effect of Al_2O_3 preparation on $[Rh(CO)_2Cl]_2$ decomposition 199 (1988) 518
K.C. Prince, K. Dückers, K. Horn and V. Cháb, Orientation of molecular oxygen on Pt(110) 200 (1988) L451
B.A. Orlowski, J.P. Lacharme, S. Bensalah and C.A. Sebenne, Electronic properties of cleaved CdTe(110) surfaces 200 (1988) L460
W.T. Tysoe, F. Zaera and G.A. Somorjai, An XPS study of the oxidation and reduction of the rhenium–platinum system under atmospheric conditions 200 (1988) 1
C. Astaldi and K. Jacobi, Photoemission from xenon clusters on barium 200 (1988) 15
B.A. Orlowski, Electronic surface states investigated by means of photoemission spectroscopy 200 (1988) 144
J. Szuber, Electronic properties of the polar GaAs(111)As surface 200 (1988) 157
P. Mazur, Potential barrier at the NaCl–Si(111) interface 200 (1988) 454

Photon emission

C. Benndorf, E. Bertel, V. Dose, W. Jacob, N. Memmel and J. Rogozik, An inverse photoemission study of CO adsorption on clean and potassium promoted Ru(001) 191 (1987) 455
C.-C. Tzeng and J.T. Lue, Second-harmonic generation of light from gold and copper films by total internal reflection 192 (1987) 491
W. Reimer, Th. Fink and J. Küppers, Inverse photoemission spectroscopy of H, CO and NO adsorbed at Ni(100) and Ni(111) surfaces 193 (1988) 259
B. Frick, K. Jacobi, J.A. Wilder, H.J. Sagner and K.H. Frank, Inverse photoemission of Pd grown on Al(111) 193 (1988) 529
I.V. Kukushkin and V.B. Timofeev, Optical measurements of Landau level density of states and Coulomb gaps under FQHE in Si MOSFET 196 (1988) 196
B.B. Goldberg, D. Heiman, A. Pinczuk, C.W. Tu, A.C. Gossard and J.H. English, Magneto-optics of the fractional quantum Hall effect 196 (1988) 209
B. Deveaud, J. Shah, T.C. Damen, A. Regreny and B. Lambert, Determination of carrier mobility for Bloch transport in superlattice minibands 196 (1988) 386
R. Sauer, T.D. Harris and W.T. Tsang, Photoluminescence and photoluminescence excitation study of electron–hole tunneling in $In_{0.53}Ga_{0.47}As$/InP coupled-single quantum wells 196 (1988) 388
D.J. Westland, D. Mihailovič, J.F. Ryan and M.D. Scott, Time-resolved photoluminescence measurement of carrier trapping time of InGaAs/InP quantum wells 196 (1988) 399

M.S. Skolnick, J.M. Rorison, K.J. Nash and S.J. Bass, Fermi energy edge singularity in luminescence spectra from modulation-doped quantum wells 196 (1988) 507
J.A. Brum, J. Orgonasi, G. Bastard, C. Delalande, M. Voos, G. Weimann and W. Schlapp, Optical properties of one-side modulation-doped quantum wells 196 (1988) 512
J.C. Maan, Magneto-optical properties of superlattices and quantum wells 196 (1988) 518
J.S. Lee, N. Miura and Y. Iwasa, Magneto-optics of n- and p-type modulation-doped GaAs/$Al_xGa_{1-x}As$ quantum wells 196 (1988) 534
L. Viña, Spectroscopic studies of excitonic fine structure under electric fields 196 (1988) 569
A.V. Nurmikko, Quasi-two-dimensional excitons in selected II–VI compound semiconductor superlattices: the case of a small valence band offset 196 (1988) 632
D.D. Awschalom, G. Grinstein, J. Yoshino, H. Munekata and L.L. Chang, Dimensional dependence of magnetic susceptibility in dilute magnetic semiconductor superlattices 196 (1988) 649
C.H. Perry, K.S. Lee, W. Zhou, J.M. Worlock, A. Zrenner, F. Koch and K. Ploog, Magneto-optical studies of a silicon delta-doping layer in n-GaAs 196 (1988) 677
D. Heskett, L.E. Urbach, K.J. Song, E.W. Plummer and H.L. Dai, Oxygen and pyridine on Ag(110) studied by second harmonic generation: coexistence of two phases within monolayer pyridine coverage 197 (1988) 225
R. Drube, V. Dose and A. Goldmann, Empty electronic states at the (1×1) and (5×20) surfaces of Pt(100): an inverse photoemission study 197 (1988) 317
N.J. Tro and S.M. George, Temperature-programmed spectroscopy for surface kinetic analysis: absorption and laser-induced fluorescence techniques 197 (1988) L246
M. Iwami, M. Kusaka, M. Hirai, H. Nakamura, K. Shibahara and H. Matsunami, A new application of soft X-ray spectroscopy to a non-destructive analysis of a film/substrate contact system: carbonized-layer (ultra-thin-film)/Si(100) 199 (1988) 467
J. Auleytner, Bremsstrahlung isochromat spectroscopy in the study of surfaces 200 (1988) 504

Physisorption, see also Adsorption isotherms

H.-Y. Kim and M.W. Cole, Substrate mediation of the interaction between adatoms on graphite: discrete lattice model 194 (1988) 257
V.A. Bakaev, Towards the molecular theory of physical adsorption on heterogeneous surfaces 198 (1988) 571
M.J. Bojan and W.A. Steele, Computer simulation of physisorption on a heterogeneous surface 199 (1988) L395

Platinum

H.R. Siddiqui, X. Guo, I. Chorkendorff and J.T. Yates, Jr., CO adsorption site exchange between step and terrace sites on Pt(112) 191 (1987) L813
F.T. Wagner and T.E. Moylan, A comparison between water adsorbed on Rh(111) and Pt(111), with and without predosed oxygen 191 (1987) 121
C. Ocal and S. Ferrer, Low temperature diffusion of Pt and Au atoms through thin TiO_2 films on a Ti substrate 191 (1987) 147
H. Gutleben and E. Bechtold, Desorption of sulfur from Pt(100) 191 (1987) 157

K. Heinz, A. Barthel, L. Hammer and K. Müller, Kinetics of the irreversible transition Pt(110)$1 \times 1 \rightarrow 1 \times 2$ as observed by LEED 191 (1987) 174
G.E. Mitchell, M.A. Henderson and J.M. White, The adsorption of PH_3 on Pt(111) and its influence on coadsorbed CO 191 (1987) 425
D.H. Ehlers, A.P. Esser, A. Spitzer and H. Lüth, Coadsorption of CO with methanol, water and xenon on Pt(111): band suppression in vibrational spectroscopy 191 (1987) 466
B.E. Hayden, A.W. Robinson and P.M. Tucker, IR evidence for the molecular reorientation of linear CO on Pt(110)-(1×2) 192 (1987) 163
B. Wästberg and A. Rosén, Analysis of the position on the $2\pi^*$-derived states for CO adsorbed on the Pt(110) surface 193 (1988) L7
H.R. Siddiqui, A. Winkler, X. Guo, P. Hagans and J.T. Yates, Jr., Chemisorption site retention during thermal desorption – a study of O_2 chemisorption on Pt(112) 193 (1988) L17
X.-L. Zhou, X.-Y. Zhu and J.M. White, A TPD, SIMS and $\Delta\phi$ study of the influence of coadsorbed potassium on the adsorption and decomposition of ethylene on Pt(111) 193 (1988) 387
E.D. Fleischmann and J.E. Adams, Dynamics of a Langmuir–Hinshelwood-type recombination reaction 193 (1988) 593
G. Pirug and H.P. Bonzel, Ordering of potassium overlayers on Pt(111) 194 (1988) 159
A. Cassuto, J.J. Ehrhardt, J. Cousty and R. Riwan, Angle-resolved photoemission of xenon adsorbed on Pt(111): the $(\sqrt{3} \times \sqrt{3})R30°$ commensurate layer 194 (1988) 579
G.D. Billing, Laser-assisted molecule–surface collisions 195 (1988) 187
K. Kern, R. David, P. Zeppenfeld and G. Comsa, Registry effects in the thermodynamic quantities of Xe adsorption on Pt(111) 195 (1988) 353
E.I. Altman and R.J. Gorte, A comparison of the desorption of CO from Pt and Rh particles on α-$Al_2O_3\{0001\}$ 195 (1988) 392
F.T. Wagner, T.E. Moylan and S.J. Schmieg, Hydrophilic versus hydrophobic coadsorption: carbon monoxide and water on Rh(111) versus Pt(111) 195 (1988) 403
D.S. Bethune, A.C. Luntz, J.K. Sass and D.K. Roe, Optical analysis of thin-layer electrochemical cells for infrared spectroscopy of adsorbates 197 (1988) 44
J.M. Nicol, J.J. Rush and R.D. Kelley, Inelastic neutron scattering studies of the interaction of hydrogen with palladium black 197 (1988) 67
S. Ladas, R. Imbihl and G. Ertl, Microfacetting of a Pt(110) surface during catalytic CO oxidation 197 (1988) 153
R. Drube, V. Dose and A. Goldmann, Empty electronic states at the (1×1) and (5×20) surfaces of Pt(100): an inverse photoemission study 197 (1988) 317
K. Tamura, U. Bardi and Y. Nihei, An investigation by angular resolved X-ray photoelectron spectroscopy of strong metal–support interaction (SMSI) in the Pt/TiO_2 system 197 (1988) L281
P. Morgen, M. Szymonski, J. Onsgaard, B. Jørgensen and G. Rossi, Formation of the Pt–Si(111) interface 197 (1988) 347
G.E. Mitchell, M.A. Schulz and J.M. White, The reaction of H_2S with adsorbed oxygen atoms on platinum (111) 197 (1988) 379
R. Lamber, N. Jaeger and G. Schulz-Ekloff, Electron microscopy study of the interaction of Ni, Pd and Pt with carbon. I. Nickel catalyzed graphitization of amorphous carbon 197 (1988) 402
R.W. Judd, M.A. Reichelt and R.M. Lambert, Carbon monoxide chemisorption on Pt-dosed W(100): Pt strained overlayers, Pt crystallites and W/Pt surface alloys 198 (1988) 26

S. Ladas, R. Imbihl and G. Ertl, Kinetic oscillations and facetting during the catalytic CO oxidation on Pt(110) 198 (1988) 42
P. Légaré, G. Lindauer, L. Hilaire, G. Maire, J.-J. Ehrhardt, J. Jupille, A. Cassuto, C. Guillot and J. Lecante, On the interaction of O_2 with Pt(111) and Pt(557) surfaces: core-level shift study using conventional and synchrotron radiation sources 198 (1988) 69
E.G. Michel, M.C. Asensio and S. Ferrer, Epitaxy of Pt on Au(001): growth mode, interface state and Pt core-level shifts 198 (1988) L365
G.H. Vurens, D.R. Strongin, M. Salmeron and G.A. Somorjai, An ISS and AES study of alkali induced sintering of an iron oxide monolayer adsorbed on Pt(111) 199 (1988) L387
E.C. Sowa, M.A. Van Hove and D.L. Adams, The missing-row model for the reconstructed Pt(110)–(1 × 2) surface: a LEED intensity analysis showing multilayer distortions 199 (1988) 174
L. Palaikis, D. Zurawski, M. Hourani and A. Wieckowski, Surface electrochemistry of carbon monoxide adsorbed from electrolytic solutions at single crystal surfaces of Pt(111) and Pt(100) 199 (1988) 183
G. Pirug and H.P. Bonzel, Short range interaction of K and CO coadsorbed on Pt(111) 199 (1988) 371
D. Venus, D.A. Hensley and L.L. Kesmodel, High resolution EELS measurements of CO adsorption on Pt/Al_2O_3 model catalysts via impact scattering 199 (1988) 391
K.C. Prince, K. Dückers, K. Horn and V. Cháb, Orientation of molecular oxygen on Pt(110) 200 (1988) L451
W.T. Tysoe, F. Zaera and G.A. Somorjai, An XPS study of the oxidation and reduction of the rhenium–platinum system under atmospheric conditions 200 (1988) 1
T.T. Tsong, H.M. Liu, Q.J. Gao, Y. Liou and D.L. Feng, Atomic structures of silicon and metal surfaces; pulsed-laser TOF atom-probe and field ion microscopy 200 (1988) 220

Raman scattering

D. Gammon, E. Glaser, B.V. Shanabrook and D. Musser, A spectroscopic study of screening effects in a quasi-two-dimensional system 196 (1988) 359
J.E. Zucker, E. Isaacs, D. Heiman, A. Pinczuk and D.S. Chemla, Localized quantum well excitons in the high magnetic field limit 196 (1988) 563
J.M. Calleja, C. López, C. Tejedor, L. Viña, E.E. Méndez, W.I. Wang, M. Staines and M. Cardona, Study of electric field effects on the electronic structure of quantum wells by resonant Raman scattering 196 (1988) 578
G. Abstreiter, T. Egeler, S. Beeck, A. Seilmeier, H.J. Hübner, G. Weimann and W. Schlapp, Electronic excitations in narrow $GaAs/Al_xGa_{1-x}As$ quantum well structures 196 (1988) 613
R. Borroff, R. Merlin, R.L. Greene and J. Comas, Observation of coupled quasi-two-dimensional electronic excitations in tilted magnetic fields 196 (1988) 626
Y.T. Wang and K.C. Lee, The correlation between surface plasma resonance and surface enhanced Raman scattering 197 (1988) 239
Y. Gao and T. Lopez-Rios, Raman scattering of pyridine coadsorbed with Al on quenched Ag films: evidence of Raman enhancement in the pores 198 (1988) 509
N. Iwasaki, Y. Sasaki and Y. Nishina, Ag electrode reactions in NaOH solution studied by in-situ Raman spectroscopy 198 (1988) 524

Reflection spectroscopy

P. Schaaf and P. Déjardin, Reflectivity of an interface with a sigmoidal index profile 191 (1987) 579
B. Rothenhäusler and W. Knoll, On the influence of the propagation length of plasmon surface polaritons in the visible energy range for the optical characterization of heterogeneous thin films 191 (1987) 585
E. Czarnecka-Such and A. Kisiel, Analysis of reflectivity spectra of silicon implanted with 70 keV B, Si, and Ag ions 193 (1988) 221
A. Zecchina, D. Scarano, L. Marchese, S. Coluccia and E. Giamello, Defect centres on Mg-doped MgO surfaces 194 (1988) 531
Y.T. Wang and K.C. Lee, The correlation between surface plasma resonance and surface enhanced Raman scattering 197 (1988) 239
J. Schneider, C. Franke and D.M. Kolb, Image-potential-induced surface states at the Ag(111)–electrolyte interface 198 (1988) 277
T. Wadayama, T. Sakurai, S. Ichikawa and W. Suëtaka, Charge-transfer enhancement in infrared absorption of thiocyanate ions adsorbed on a gold electrode in the Kretschmann ATR configuration 198 (1988) L359
R.A. Thuraisingham and W.J. Meath, Orientationally averaged spectra. An application to molecules adsorbed on a surface 199 (1988) 199
A.G.B.M. Sasse, P.M. Kleinherenbrink and A. van Silfhout, Missing dimer defects investigated by adsorption of nitric oxide (NO) on silicon (100) 2×1 199 (1988) 243

Resistance, see Conductivity, Surface conductivity

Rhenium

G. Haase and M. Asscher, Adsorption and dissociation of N_2 on rhenium single crystal surfaces 191 (1987) 75
N.R. Gall, S.N. Mikhailov, E.V. Rut'kov and A.Ya. Tontegode, Carbon interaction with the rhenium surface 191 (1987) 185
W.T. Tysoe, F. Zaera and G.A. Somorjai, An XPS study of the oxidation and reduction of the rhenium–platinum system under atmospheric conditions 200 (1988) 1

Rhodium

Q.J. Gao and T.T. Tsong, Atomic structures of epitaxial overlayers of bcc Fe on fcc Rh surfaces 191 (1987) L787
F.T. Wagner and T.E. Moylan, A comparison between water adsorbed on Rh(111) and Pt(111), with and without predosed oxygen 191 (1987) 121
S.G. Brass and G. Ehrlich, Activated chemisorption of CH_4 and internal molecular motions 191 (1987) L819
F. Solymosi, J. Kiss and I. Kovács, Adsorption of HCOOH on Rh(111) and its reaction with preadsorbed oxygen 192 (1987) 47
M. Ehsasi and K. Christmann, The interaction of hydrogen with a rhodium (110) surface 194 (1988) 172
M.E. Levin, K.J. Williams, M. Salmeron, A.T. Bell and G.A. Somorjai, Alumina and titania overlayers on rhodium: a comparison of the chemisorption and catalytic properties 195 (1988) 341

L.J. Richter, T.A. Germer and W. Ho, Coadsorption-induced site changes: bridging hydrogen from CO and H on Rh(100) 195 (1988) L182
E.I. Altman and R.J. Gorte, A comparison of the desorption of CO from Pt and Rh particles on α-$Al_2O_3\{0001\}$ 195 (1988) 392
F.T. Wagner, T.E. Moylan and S.J. Schmieg, Hydrophilic versus hydrophobic coadsorption: carbon monoxide and water on Rh(111) versus Pt(111) 195 (1988) 403
M.E. Levin, M. Salmeron, A.T. Bell and G.A. Somorjai, The characterization of Ti and Al oxide overlayers on rhodium and gold by XPS 195 (1988) 429
C.M. Mate, C.-T. Kao, B.E. Bent and G.A. Somorjai, The surface structure and thermal decomposition of acetylene on the Rh(111) single crystal surface and the effect of coadsorbed carbon monoxide 197 (1988) 183
F.P. Netzer, E. Bertel and A. Goldmann, Structure and surface chemistry of 5-membered cyclic molecules on Rh(111): pyrrole 199 (1988) 87
R. Superfine, P. Guyot-Sionnest, J.H. Hunt, C.T. Kao and Y.R. Shen, Surface vibrational spectroscopy of molecular adsorbates on metals and semiconductors by infrared–visible sum-frequency generation 200 (1988) L445
T.T. Tsong, H.M. Liu, Q.J. Gao, Y. Liou and D.L. Feng, Atomic structures of silicon and metal surfaces; pulsed-laser TOF atom-probe and field ion microscopy 200 (1988) 220

Ruthenium

J. Hrbek, T.K. Sham and M.-L. Shek, Electronic structure of Mn overlayers on the Ru(001) surface 191 (1987) L772
C.M. Greenlief, P.L. Radloff, X.-L. Zhou and J.M. White, The formation and decomposition kinetics of ethylidyne on Ru(0001) 191 (1987) 93
C.H. Mak, J.L. Brand, B.G. Koehler and S.M. George, Coverage dependence of the surface diffusion coefficient for hydrogen on Ru(001) 191 (1987) 108
C. Benndorf, E. Bertel, V. Dose, W. Jacob, N. Memmel and J. Rogozik, An inverse photoemission study of CO adsorption on clean and potassium promoted Ru(001) 191 (1987) 455
M. Lindroos, H. Pfnür and D. Menzel, Investigation of a disordered adsorption system by electron reflection: H/Ru(001) at intermediate coverages 192 (1987) 421
J.E. Houston, C.H.F. Peden, P.J. Feibelman and D.R. Hamann, Analysis of CO–Cu bonding by observation of interface states on Cu/Ru bimetallic surfaces 192 (1987) 457
C.H.F. Peden, D.W. Goodman, J.E. Houston and J.T. Yates, Jr., Subsurface hydrogen on Ru(0001): quantification by Cu titration 194 (1988) 92
M. Kiskinova and M. Tikhov, Adsorption of CO on Ru(10$\bar{1}$0) doped with different amounts of K and Cs 194 (1988) 379
J.L. Brand, A.A. Deckert and S.M. George, Surface diffusion of hydrogen on sulfur-covered Ru(001) surfaces studied using laser-induced thermal desorption 194 (1988) 457
C. Egawa and Y. Iwasawa, Adsorption of CO and D_2 on Fe/Ru(001) surface 195 (1988) 43
T. Matsushima, Angular distribution of the combinative desorption of nitrogen atoms on Ru(001) surfaces 197 (1988) L287
C. Egawa and Y. Iwasawa, Ethane hydrogenolysis on a Ru(1,1,10) surface 198 (1988) L329
D. Heskett, The interaction range in alkali metal-promoted systems 199 (1988) 67

Secondary ion mass spectroscopy

C.M. Greenlief, P.L. Radloff, X.-L. Zhou and J.M. White, The formation and decomposition kinetics of ethylidyne on Ru(0001) 191 (1987) 93
X.-L. Zhou, X.-Y. Zhu and J.M. White, A TPD, SIMS and $\Delta\phi$ study of the influence of coadsorbed potassium on the adsorption and decomposition of ethylene on Pt(111) 193 (1988) 387
H. Yamamoto, T. Kikuchi and K. Furuya, The primary ion energy dependence of the analyzing depth in SIMS measurements 194 (1988) 217
P.H. McBreen, S. Moore, A. Adnot and D. Roy, SIMS study of the interaction of CO and O_2 with K adsorbed on Au 194 (1988) L112
X.-L. Zhou and J.M. White, Adsorption and decomposition of methyl halides on Ni(100): a TPD, SIMS and AES study 194 (1988) 438
X.-Y. Zhu, S. Akhter, M.E. Castro and J.M. White, Kinetic studies using static SIMS: H_2 adsorption on Ni(100) 195 (1988) L145
G.E. Mitchell, M.A. Schulz and J.M. White, The reaction of H_2S with adsorbed oxygen atoms on platinum (111) 197 (1988) 379
Ts.S. Marinova and D.V. Chakarov, Hydrogen isotope exchange in a coverage obtained on Ir(111) by ethylene adsorption 200 (1988) 309

Semiconductor–electrolyte interface, see Solid–electrolyte interface

Semiconductors

M. Karimi and G. Vidali, Long range interaction between hydrogen and rare gas atoms with surfaces of III–V semiconductors 191 (1987) L799
J.S. Nkoma, Surface phonon polaritons in finite semiconductor superlattices 191 (1987) 595
F. Sols and R.H. Ritchie, Self-energy of a charge near an interface 194 (1988) 275
N.V. Joshi, Laser-assisted growth of thin films of $CuAlSe_2$ 194 (1988) L105
T. Takagahara, Enhanced excitonic optical nonlinearity and exciton dynamics in semiconductor microstructures 196 (1988) 590
S.A. Jackson, Spin fluctuations and magnetic polaron formation in dilute magnetic semiconductor quantum well structures 196 (1988) 654
T. Inaoka, Dielectric response of a degenerate polar semiconductor surface 198 (1988) 491
N.V. Mileshkina and E.A. Semykina, Numerical computation of potential profiles and energy spectrum in the space charge region of semiconductors at high electric field 200 (1988) 179
H. Flietner, Spectrum and nature of defects at interfaces of semiconductors with predominant homopolar bonding 200 (1988) 463

Silica, see Silicon oxide

Silicon

M. Zinke-Allmang and L.C. Feldman, Overlayer energetics from thermal desorption on Si 191 (1987) L749
S. Tanaka, M. Onchi and M. Nishijima, Amino species on the Si(111)(7 × 7) surface – observation by vibrational EELS 191 (1987) L756
A. Ichimiya and S. Mizuno, RHEED intensity analysis of Si(111)7 × 7-H surface 191 (1987) L765

N. Shimizu, Y. Tanishiro, K. Takayanagi and K. Yagi, On the vacancy formation and diffusion on the Si(111)7 × 7 surfaces under exposures of low oxygen pressure studied by in situ reflection electron microscopy 191 (1987) 28

S. Miura, K. Kato, T. Ide and T. Ichinokawa, Formation of superstructures in Ge-deposited surfaces of Si(110) by annealing 191 (1987) 259

T. Takahashi, S. Nakatani, T. Ishikawa and S. Kikuta, Surface structure analysis of Si(111)$\sqrt{3} \times \sqrt{3}$-Bi by X-ray diffraction – approach to the solution of the phase problem 191 (1987) L825

P.M.J. Marée, K. Nakagawa, F.M. Mulders, J.F. van der Veen and K.L. Kavanagh, Thin epitaxial Ge–Si(111) films: study and control of morphology 191 (1987) 305

B. Schleich, D. Schmeisser and W. Göpel, Structure and reactivity of the system Si/SiO_2/Pd: a combined XPS, UPS and HREELS study 191 (1987) 367

H. Kemmann, F. Müller and H. Neddermeyer, AES, LEED and TDS studies of Cu on Si(111)7 × 7 and Si(100)2 × 1 192 (1987) 11

N. Matsunami, Y. Hasebe and N. Itoh, Determination of the absolute cross section of electron-stimulated-desorption of deuterium from Si(111) 192 (1987) 27

A. Ichimiya, RHEED intensity analysis of Si(111)7 × 7 at one-beam condition 192 (1987) L893

M. Nishijima, J. Yoshinobu, H. Tsuda and M. Onchi, The adsorption and thermal decomposition of acetylene on Si(100) and vicinal Si(100)9° 192 (1987) 383

H. Hirayama, T. Tatsumi and N. Aizaki, Reflection high energy electron diffraction and Auger electron spectroscopic study on B/Si(111) surfaces 193 (1988) L47

R.Q. Hwang, E.D. Williams and R.L. Park, Thermal disordering of the ($\sqrt{3} \times \sqrt{3}$)R30° structure of Al on Si(111) 193 (1988) L53

J.K.N. Sharma, B.R. Chakraborty, S.M. Shivaprasad and J. Cazaux, Deep-level core-electron loss studies on silicon surface 193 (1988) L58

N. Ishimaru, H. Ueba and C. Tatsuyama, Initial stage of heteroepitaxy of Ge on Si(111)-7 × 7 and (100)-2 × 1 surfaces studied by low-energy electron-loss spectroscopy (LEELS) 193 (1988) 193

G. Quentel, M. Gauch and A. Degiovanni, In situ ellipsometry studies of the growth of Pb on Si(111) surfaces 193 (1988) 212

E. Czarnecka-Such and A. Kisiel, Analysis of reflectivity spectra of silicon implanted with 70 keV B, Si, and Ag ions 193 (1988) 221

Th. Berghaus, A. Brodde, H. Neddermeyer and St. Tosch, Scanning tunneling microscopy and spectroscopy on 7 × 7 reconstructed Si(111) surfaces containing defects 193 (1988) 235

K. Uno, A. Namiki, S. Zaima, T. Nakamura and N. Ohtake, XPS study of the oxidation process of Si(111) via photochemical decomposition of N_2O by an UV excimer laser 193 (1988) 321

N.Q. Lam and H.A. Hoff, Surface and subsurface composition changes in Ni–Si alloys during elevated-temperature sputtering 193 (1988) 353

G. Akinci, T.R. Ohno and E.D. Williams, $NiSi_2$ on Si(111). I. Effects of substrate cleaning procedure and reconstruction 193 (1988) 534

H. Jorke, Surface segregation of Sb on Si(100) during molecular beam epitaxy growth 193 (1988) 569

K. Kato, T. Ide, S. Miura, A. Tamura and T. Ichinokawa, Si(100)2 × *n* structures induced by Ni contamination 194 (1988) L87

S.-Y. Chu and A.B. Anderson, Acetylene adsorption on Si(111): molecular orbital theory 194 (1988) 55

M. Iwami, T. Terada, H. Tochihara, M. Kubota and Y. Murata, Alloyed interface formation in the Au–Si(111)2 × 1 system studied by photoemission spectroscopy 194 (1988) 115
W.A. Schmidt, A.J. Melmed, M.F. Lovisa, M. Naschitzki and J.H. Block, Field-ion energy spectroscopy of gold overlayers on silicon 194 (1988) 127
E.M. Gullikson, A.P. Mills, Jr. and J.M. Phillips, Electron and positron work functions of cobalt silicide 195 (1988) L150
W. Radlik and H. Neddermeyer, UV photoemission study of the system Cu on Si(100)2 × 1 195 (1988) 195
P.M. Agrawal, D.L. Thompson and L.M. Raff, Computational studies of heterogeneous reactions of SiH_2 on Si(111) surfaces 195 (1988) 283
S.M. Gates, Adsorption kinetics of SiH_4, Si_2H_6 and Si_3H_8 on the Si(111)-(7 × 7) surface 195 (1988) 307
R.J. Phaneuf and E.D. Williams, Metastable structures of Si(111) formed by laser-quenching 195 (1988) 330
A.G.B.M. Sasse, D.G. Lakerveld and A. van Silfhout, The adsorption of nitric oxide on a silicon (100) 2 × 1 surface studied with Auger electron spectroscopy 195 (1988) L167
Zheng Qing-qi, Zeng Zhi and Han Rushan, Electronic structures of Ag-adsorbed Si(111) surface 195 (1988) L173
V.V. Korobtsov, V.G. Lifshits and A.V. Zotov, Formation of Si(111)$\sqrt{3} \times \sqrt{3}$-B and Si epitaxy on Si(111)$\sqrt{3} \times \sqrt{3}$-B: LEED–AES study 195 (1988) 466
D. Pooke, R. Mottahedeh, M. Pepper and A. Gundlach, Quantum transport in narrow Si accumulation layers 196 (1988) 59
S.B. Kaplan, Structure in the rectifying behavior of mesoscopic Si MOSFETs 196 (1988) 93
J.J. Wainer, A.B. Fowler and R.A. Webb, Magnetic field effects in strongly localized quasi-1D MOSFETs 196 (1988) 134
I.V. Kukushkin and V.B. Timofeev, Optical measurements of Landau level density of states and Coulomb gaps under FQHE in Si MOSFET 196 (1988) 196
J.-P. Cheng, N.C. Jarosik, B.D. McCombe and K.C. Woo, Cyclotron resonance of electrons in Si n-inversion layers at low densities: many-body effects or localization? 196 (1988) 268
S. Kawaji and N. Nagashima, Effects of higher subband tails on inelastic scattering time in Si(001) inversion layers 196 (1988) 316
A. Ghazali, A. Gold and J. Serre, Impurity bands and band tails in accumulation and inversion layers 196 (1988) 346
G.M. Kramer and R.F. Wallis, Theory of electronic impurity states associated with primed subbands of inversion layers in silicon MOSFETs 196 (1988) 355
U. Kunze, Tunneling study of mixed electric and magnetic subbands on Si(001) surfaces 196 (1988) 374
A.J. Kent, V.W. Rampton, M.I. Newton, P.J.A. Carter, G.A. Hardy, P. Hawker, P.A. Russell and L.J. Challis, Magnetic field dependence of the phonon scattering and phonon emission by a 2DEG in a Si MOSFET 196 (1988) 410
V.B. Shikin and I. Nachev, Edge electron states in charged two-dimensional systems 196 (1988) 494
J.P. Kotthaus, W. Hansen, H. Pohlmann, M. Wassermeier and K. Ploog, Intersubband resonances in quasi-one-dimensional channels 196 (1988) 600
A. Zrenner, F. Koch and K. Ploog, Subband physics for a "realistic" δ-doping layer 196 (1988) 671
C.H. Perry, K.S. Lee, W. Zhou, J.M. Worlock, A. Zrenner, F. Koch and K. Ploog, Magneto-optical studies of a silicon delta-doping layer in n-GaAs 196 (1988) 677

M. Zinke-Allmang, L.C. Feldman, J.R. Patel and J.C. Tully, The morphology of As terminated Si(111) from desorption kinetics 197 (1988) 1
E. Grossman, A. Bensaoula and A. Ignatiev, An XPS study of XeF_2 dry etching of tungsten silicide 197 (1988) 99
D.J. O'Connor, Y.G. Shen, J.M. Wilson and R.J. MacDonald, The role of the electronic structure in charge exchange between low energy ions and surfaces 197 (1988) 277
M.F. Hochella, Jr. and A.H. Carim, A reassessment of electron escape depths in silicon and thermally grown silicon dioxide thin films 197 (1988) L260
E. Louis and F. Flores, Many-body effects in the Si(111)7 × 7 reconstructed surface 197 (1988) L269
P. Morgen, M. Szymonski, J. Onsgaard, B. Jørgensen and G. Rossi, Formation of the Pt–Si(111) interface 197 (1988) 347
S.A. Barnett and A. Rockett, Monte Carlo simulations of Si(001) growth and reconstruction during molecular beam epitaxy 198 (1988) 133
D.W. Brenner and B.J. Garrison, Microscopic mechanisms of reactions associated with silicon MBE: a molecular dynamics investigation 198 (1988) 151
B.M. Rice, L.M. Raff and D.L. Thompson, Dynamics of chemisorption/scattering of atomic hydrogen on partially covered Si(111) surfaces 198 (1988) 360
W.R. Salaneck, R. Bergman, J.-E. Sundgren, A. Rockett, T. Motooka and J.E. Greene, Adsorption of tri-methyl aluminum molecules on silicon 198 (1988) 461
Z. Ying and W. Ho, Thermal and photon induced reactions of CH_3CH_2OH on Si(111)7 × 7 198 (1988) 473
A.G.B.M. Sasse, P.M. Kleinherenbrink and A. van Silfhout, Missing dimer defects investigated by adsorption of nitric oxide (NO) on silicon (100) 2 × 1 199 (1988) 243
N. Aoto, E. Ikawa and Y. Kurogi, Low-energy electron energy loss spectroscopy of Cl adsorbed Si(111), Si(100) and Si(110) surfaces 199 (1988) 408
T.T. Tsong, D.L. Feng and H.M. Liu, Atomic structures in reconstruction of high index surfaces of silicon 199 (1988) 421
M. Es-Souni and A. Mosser, Comments on 'Surface segregation of Si on Fe single crystal surfaces and interaction with carbon' 199 (1988) 439
K.L. Carleton, B. Bourguignon and S.R. Leone, Desorption of a two-state system: laser probing of gallium atom spin–orbit states from silicon (100) 199 (1988) 447
M. Iwami, M. Kusaka, M. Hirai, H. Nakamura, K. Shibahara and H. Matsunami, A new application of soft X-ray spectroscopy to a non-destructive analysis of a film/substrate contact system: carbonized-layer (ultra-thin-film)/Si(100) 199 (1988) 467
R. Superfine, P. Guyot-Sionnest, J.H. Hunt, C.T. Kao and Y.R. Shen, Surface vibrational spectroscopy of molecular adsorbates on metals and semiconductors by infrared–visible sum-frequency generation 200 (1988) L445
R. Kalla and J. Pollmann, Bond-angle relaxation and electronic structure of Si and Ge overlayers on (110) surfaces of III-V semiconductors 200 (1988) 80
J. Lampinen, R.M. Nieminen and K. Kaski, Molecular dynamics simulation of the structure and melting transition of the Si(001) surface 200 (1988) 101
B. Adamowicz and S. Kochowski, The contribution of surface effects to the surface photovoltage dependence on temperature for the real Si(111) surface 200 (1988) 172
K. Pater, Silicon work function in Al–SiO_2–Si system 200 (1988) 187
T.T. Tsong, H.M. Liu, Q.J. Gao, Y. Liou and D.L. Feng, Atomic structures of silicon and metal surfaces; pulsed-laser TOF atom-probe and field ion microscopy 200 (1988) 220

R. Altsinger, H. Busch, M. Horn and M. Henzler, Nucleation and growth during molecular beam epitaxy (MBE) of Si on Si(111) 200 (1988) 235
P. Mazur, Potential barrier at the NaCl–Si(111) interface 200 (1988) 454
H. Flietner, Spectrum and nature of defects at interfaces of semiconductors with predominant homopolar bonding 200 (1988) 463

Silicon carbide

M. Iwami, M. Kusaka, M. Hirai, H. Nakamura, K. Shibahara and H. Matsunami, A new application of soft X-ray spectroscopy to a non-destructive analysis of a film/substrate contact system: carbonized-layer (ultra-thin-film)/Si(100) 199 (1988) 467

Silicon dioxide

H. Flietner, Spectrum and nature of defects at interfaces of semiconductors with predominant homopolar bonding 200 (1988) 463

Silicon oxide

B. Schleich, D. Schmeisser and W. Göpel, Structure and reactivity of the system $Si/SiO_2/Pd$: a combined XPS, UPS and HREELS study 191 (1987) 367
B. Rothenhäusler and W. Knoll, On the influence of the propagation length of plasmon surface polaritons in the visible energy range for the optical characterization of heterogeneous thin films 191 (1987) 585
S. Joyce, J.G. Langan and J.I. Steinfeld, Reactions of XeF_2 with thermally grown SiO_2 195 (1988) 270
M.F. Hochella, Jr. and A.H. Carim, A reassessment of electron escape depths in silicon and thermally grown silicon dioxide thin films 197 (1988) L260

Silver

G.C. Corey, J.E. Smedley, M.H. Alexander and W.-K. Liu, Collisions of NO($X\ ^2\Pi$) with a Ag(111) surface: validity of the energy sudden approximation 191 (1987) 203
B. Rothenhäusler and W. Knoll, On the influence of the propagation length of plasmon surface polaritons in the visible energy range for the optical characterization of heterogeneous thin films 191 (1987) 585
M. Bowker, B. Wolfindale, D.A. King and G. Lamble, The coadsorption of K and Cl on Ag(100): electronic, kinetic and thermodynamic surface modification by promotion 192 (1987) 95
C.T. Rettner, J. Kimman, F. Fabre, D.J. Auerbach and H. Morawitz, Direct vibrational excitation in gas–surface collisions of NO with Ag(111) 192 (1987) 107
M.G. Samant, M.F. Toney, G.L. Borges, L. Blum and O.R. Melroy, In-situ grazing incidence X-ray diffraction study of electrochemically deposited Pb monolayers on Ag(111) 193 (1988) L29
E. Czarnecka-Such and A. Kisiel, Analysis of reflectivity spectra of silicon implanted with 70 keV B, Si, and Ag ions 193 (1988) 221

W. Segeth, J.H. Wijngaard and G.A. Sawatzky, The electronic structure of a new c(2 × 2) oxygen phase on Ag(110) 194 (1988) 615
T. Bornemann, A. Otto, K.H. Frank and B. Reihl, On the optical properties of coldly deposited silver films: comparison of EELS and reflectivity spectra 195 (1988) 161
Zheng Qing-qi, Zeng Zhi and Han Rushan, Electronic structures of Ag-adsorbed Si(111) surface 195 (1988) L173
D. Heskett, L.E. Urbach, K.J. Song, E.W. Plummer and H.L. Dai, Oxygen and pyridine on Ag(110) studied by second harmonic generation: coexistence of two phases within monolayer pyridine coverage 197 (1988) 225
Y.T. Wang and K.C. Lee, The correlation between surface plasma resonance and surface enhanced Raman scattering 197 (1988) 239
R.J. Madix, J.L. Solomon and J. Stöhr, The orientation of the carbonate anion on Ag(110) 197 (1988) L253
P.J. van den Hoek, T.C.M. Horn and A.W. Kleyn, Classical trajectories harpooning and dissociation for O_2 scattering from Ag(111) 198 (1988) L335
A. Amirav and M.J. Cardillo, Ion emission due to the scattering of hyperthermal Xe atoms from single crystal surfaces 198 (1988) 192
J. Schneider, C. Franke and D.M. Kolb, Image-potential-induced surface states at the Ag(111)–electrolyte interface 198 (1988) 277
Y. Gao and T. Lopez-Rios, Raman scattering of pyridine coadsorbed with Al on quenched Ag films: evidence of Raman enhancement in the pores 198 (1988) 509
N. Iwasaki, Y. Sasaki and Y. Nishina, Ag electrode reactions in NaOH solution studied by in-situ Raman spectroscopy 198 (1988) 524
Y. Sasaki, N. Iwasaki and Y. Nishina, Adsorption of CO_3 on a silver electrode in Na_2CO_3 solution studied by SERS 198 (1988) 541
M. Kusaka, M. Hirai and M. Iwami, AES and LEELS study of room temperature deposition of Ag on a CdS (air cleaved) substrate 199 (1988) 99
D.J. Holmes, D.R. Batchelor and D.A. King, Surface structure determination by SEXAFS: the reliability of bond lengths and coordination numbers from multi-shell analyses 199 (1988) 476
Bao Xinhe, Dong Shuzhong and Deng Jingfa, Adsorption of oxygen on electrolytic silver by UPS and work function measurement 199 (1988) 493
S. Sendecki, Photoemission measurements of KCl on Ag(110); adsorption parameters 200 (1988) 280
W. Doliński, S. Mróz and M. Zagórski, Determination of the inelastic mean free path of electrons in silver and copper by measurement and calculation of the elastic scattering coefficient 200 (1988) 361
B. Barwiński, Influence of the dielectric overcoat on the low frequency noise in discontinuous metal films 200 (1988) 403
J. Sánchez-Dehesa, F. Flores, J. Ortega and J.D. Dow, Schottky barrier formation in defect-free metal/III–V semiconductor junctions 200 (1988) 424

Sodium, see Alkali metals

Sodium oxide, see Oxides

Solid–electrolyte interface

L.T. Tsitsopoulos, T.T. Tsotsis and I.A. Webster, An ellipsometric investigation of reaction rate oscillations during the electrochemical anodization of Cu in H_3PO_4 solutions. Some preliminary results 191 (1987) 225

P. Salvador, Subbandgap photoresponse of n-TiO_2 electrodes: transient photocurrent–time behaviour 192 (1987) 36
R. Reineke and R. Memming, High barrier GaAs/metal Schottky junctions produced by electrochemical metal deposition 192 (1987) 66
U. Schellenberger, M. Abraham and U. Trutschel, Free surface plasmon propagation: a method for metal–electrolyte interface studies in the infrared spectral region 192 (1987) 555
M.G. Samant, M.F. Toney, G.L. Borges, L. Blum and O.R. Melroy, In-situ grazing incidence X-ray diffraction study of electrochemically deposited Pb monolayers on Ag(111) 193 (1988) L29
J. Schneider and D.M. Kolb, Potential-induced surface reconstruction of Au(100) 193 (1988) 579
M.R. Kozlowski, P.S. Tyler, W.H. Smyrl and R.T. Atanasoski, Photoelectrochemical microscopy of oxide films on metals: Ti/TiO_2 interface 194 (1988) 505
D.S. Bethune, A.C. Luntz, J.K. Sass and D.K. Roe, Optical analysis of thin-layer electrochemical cells for infrared spectroscopy of adsorbates 197 (1988) 44
J. Schneider, C. Franke and D.M. Kolb, Image-potential-induced surface states at the Ag(111)–electrolyte interface 198 (1988) 277
T. Wadayama, T. Sakurai, S. Ichikawa and W. Suëtaka, Charge-transfer enhancement in infrared absorption of thiocyanate ions adsorbed on a gold electrode in the Kretschmann ATR configuration 198 (1988) L359
N. Iwasaki, Y. Sasaki and Y. Nishina, Ag electrode reactions in NaOH solution studied by in-situ Raman spectroscopy 198 (1988) 524
Y. Sasaki, N. Iwasaki and Y. Nishina, Adsorption of CO_3 on a silver electrode in Na_2CO_3 solution studied by SERS 198 (1988) 541
L. Palaikis, D. Zurawski, M. Hourani and A. Wieckowski, Surface electrochemistry of carbon monoxide adsorbed from electrolytic solutions at single crystal surfaces of Pt(111) and Pt(100) 199 (1988) 183

Sputtering

A. Nourtier, Expression of the ionisation probability for sputtering from a metal with an arbitrary electronic structure 191 (1987) L794
N.Q. Lam and H.A. Hoff, Surface and subsurface composition changes in Ni–Si alloys during elevated-temperature sputtering 193 (1988) 353
R.-S. Li, Temperature dependence of the surface composition changes under Ar ion bombardment of an $Au_{0.5}Cu_{0.5}$ alloy between 30 °C and 700 °C 193 (1988) 373
H. Yamamoto, T. Kikuchi and K. Furuya, The primary ion energy dependence of the analyzing depth in SIMS measurements 194 (1988) 217
Qu Zhe and Xie Tian-Sheng, Auger-ion sputter profiling of some homogeneous binary systems 194 (1988) L127
H. Gnaser and I.D. Hutcheon, Preferential emission of lighter isotopes in the initial stage of sputtering 195 (1988) 499
D.B. Chrisey, J.W. Boring, R.E. Johnson and J.A. Phipps, Molecular ejection from low temperature sulfur by keV ions 195 (1988) 594
R. Kelly and R.W. Dreyfus, On the effect of Knudsen-layer formation on studies of vaporization, sputtering, and desorption 198 (1988) 263
A. Wucher and H. Oechsner, Emission energy dependence of ionization probabilities in secondary ion emission from oxygen covered Ta, Nb and Cu surfaces 199 (1988) 567

Sulphides

F.S. Ohuchi, W. Jaegermann and B.A. Parkinson, XPS investigation of the reaction of $SnS_2(0001)$ with Cu 194 (1988) L69
S.Y. Yousif and H.A. Kassim, Anionic dipole polarizabilities at the surfaces of alkaline earth oxides and sulfides 197 (1988) 509
M.C. Zonnevylle, R. Hoffmann and S. Harris, Thiophene hydrodesulfurization on MoS_2; theoretical aspects 199 (1988) 320

Sulphur

H. Gutleben and E. Bechtold, Desorption of sulfur from Pt(100) 191 (1987) 157
A. Gellman, W.T. Tysoe, F. Zaera and G.A. Somorjai, A UPS and XPS investigation of the adsorption of sulfur on Mo(100): adsorption site and lateral interactions 191 (1987) 271
J.N. Andersen, Comment on 'On the structure of chemisorbed sulphur overlayers on Ni(100)' by W. Daum 192 (1987) L866
W. Daum, Reply to "Comment on 'On the structure of chemisorbed sulphur overlayers on Ni(100)'" by J.N. Andersen 192 (1987) L871
C.S. Sass and J.W. Rabalais, Chemisorption of carbonyl sulfide (OCS) on Ni between 77 and 293 K 194 (1988) L95
M.L. Burke and R.J. Madix, SO_2 structure and reactivity on clean and sulfur modified Pd(100) 194 (1988) 223
S. Nakanishi and K. Sasaki, Adsorption of sulfur on the iron (001) surface 194 (1988) 245
J.L. Brand, A.A. Deckert and S.M. George, Surface diffusion of hydrogen on sulfur-covered Ru(001) surfaces studied using laser-induced thermal desorption 194 (1988) 457
D.P. Woodruff, D.L. Seymour, C.F. McConville, C.E. Riley, M.D. Crapper, N.P. Prince and R.G. Jones, A simple X-ray standing wave technique for surface structure determination – theory and an application 195 (1988) 237
J.C. Boulliard and M.P. Sotto, Structural study of segregated sulphur on the stepped faces associated with Cu(100) 195 (1988) 255
D.B. Chrisey, J.W. Boring, R.E. Johnson and J.A. Phipps, Molecular ejection from low temperature sulfur by keV ions 195 (1988) 594
M.A. Karolewski and R.G. Cavell, An ion-induced crystal current study of clean, sulphided and oxidized Cu(100) 198 (1988) 118
W. Arabczyk, M. Militzer, H.-J. Müssig and J. Wieting, Contribution of pipe diffusion to surface segregation kinetics 198 (1988) 167

Sulphur dioxide

H. Onishi, T. Aruga, C. Egawa and Y. Iwasawa, Adsorption of CH_3OH, HCOOH and SO_2 on $TiO_2(110)$ and stepped $TiO_2(441)$ surfaces 193 (1988) 33
M.L. Burke and R.J. Madix, SO_2 structure and reactivity on clean and sulfur modified Pd(100) 194 (1988) 223

Surface composition

R.-S. Li and Y.-Z. Sun, Quantitative Auger electron spectroscopy analysis of the Au–Cu alloys 191 (1987) 339

N.Q. Lam and H.A. Hoff, Surface and subsurface composition changes in Ni–Si alloys during elevated-temperature sputtering 193 (1988) 353
P. Godowski, Surface composition of $Co_{79}Ru_{21}$ alloy contaminated with phosphorus measured by AES 200 (1988) 260

Surface conductivity, see also Field effect

H.J.W. Zandvliet and A. van Silfhout, Surface states on clean Ge(111) surfaces 195 (1988) 138

Surface defects

N. Shimizu, Y. Tanishiro, K. Takayanagi and K. Yagi, On the vacancy formation and diffusion on the Si(111)7 × 7 surfaces under exposures of low oxygen pressure studied by in situ reflection electron microscopy 191 (1987) 28
J.-K. Zuo and G.-C. Wang, Defects in a W(112) surface 194 (1988) L77
R.C. Baetzold, Y.T. Tan and P.W. Tasker, A computational approach to silver halide surfaces 195 (1988) 579
R. Huzimura, H. Kurisu and T. Okuda, Interaction of CO with surface defects of MgO: a high vacuum ESR study 197 (1988) 444
A.G.B.M. Sasse, P.M. Kleinherenbrink and A. van Silfhout, Missing dimer defects investigated by adsorption of nitric oxide (NO) on silicon (100) 2 × 1 199 (1988) 243

Surface diffusion

C.H. Mak, J.L. Brand, B.G. Koehler and S.M. George, Coverage dependence of the surface diffusion coefficient for hydrogen on Ru(001) 191 (1987) 108
G.E. Rhead, Particle array techniques: application to surface diffusion measurements 192 (1987) 597
V.P. Zhdanov, Diffusion of coadsorbed particles 194 (1988) 1
A.D. Gates and J.L. Robins, Cluster mobility calculations for gold particles on (100) NaCl surfaces 194 (1988) 13
J.L. Brand, A.A. Deckert and S.M. George, Surface diffusion of hydrogen on sulfur-covered Ru(001) surfaces studied using laser-induced thermal desorption 194 (1988) 457
V.P. Zhdanov, On kinetics of reactions limited by surface diffusion 195 (1988) L217
T.W. Duryea and H.B. Huntington, The driving force for electromigration of an atom adsorbed on simple metal surface 199 (1988) 261
J.-O. Malm and J.-O. Bovin, Real time imaging of moving atom columns on surfaces of gold crystals 200 (1988) 67
A.G. Naumovets, V.V. Poplavsky and Yu.S. Vedula, Diffusion and phase transitions in barium monolayers on the (011) plane of tungsten 200 (1988) 321
R. Błaszczyszyn and M. Błaszczyszynowa, Diffusion of nickel on the (110) region of a tungsten field emitter 200 (1988) 354
W. Korneta and Z. Pytel, Random walk near the surface 200 (1988) 374

Surface energy

R. Tognato, Some considerations on the interfacial free energies of liquid clusters embedded in a crystal matrix 199 (1988) 282

Surface melting

J. Lampinen, R.M. Nieminen and K. Kaski, Molecular dynamics simulation of the structure and melting transition of the Si(001) surface 200 (1988) 101

Surface morphology

D. Iwanov, Surface morphology and growth kinetics of zinc single crystals as influenced by vapour diffusion 200 (1988) 252

Surface phonons

A. Wierzbicki and J.M. Bowman, Vibrational self-consistent field investigation of adsorbate vibrations: coupling of atomic adsorbates to a rigid corrugated surface 191 (1987) 518
A.M. Lahee, J.P. Toennies and Ch. Wöll, A helium atom scattering study of force constant changes on the Pd(110) surface 191 (1987) 529
J.S. Nkoma, Surface phonon polaritons in finite semiconductor superlattices 191 (1987) 595
S. Lehwald, F. Wolf, H. Ibach, B.M. Hall and D.L. Mills, Surface vibrations on Ni(110): the role of surface stress 192 (1987) 131
J.E. Black, V.T. Huynh, D.J. Cheng and R.F. Wallis, Surface vibrations on body centered cubic metal surfaces: the (110) surfaces 192 (1987) 541
M. Wuttig, C. Oshima, T. Aizawa, R. Souda, S. Otani and Y. Ishizawa, Surface phonon dispersion of HfC(100) 192 (1987) 573
V. Heine and J.J.A. Shaw, The microscopic origin of incommensurate phases on (001) surfaces of Mo and W 193 (1988) 153
V. Heine and J.J.A. Shaw, Split solitons in the incommensurate and streaked phases of W(001)/H surfaces 193 (1988) 170
M. Wuttig, C. Oshima, T. Aizawa, R. Souda, S. Otani and Y. Ishizawa, Surface phonons of TiC(310) 193 (1988) 180
F. Sols and R.H. Ritchie, Self-energy of a charge near an interface 194 (1988) 275
A.J. Kent, V.W. Rampton, M.I. Newton, P.J.A. Carter, G.A. Hardy, P. Hawker, P.A. Russell and L.J. Challis, Magnetic field dependence of the phonon scattering and phonon emission by a 2DEG in a Si MOSFET 196 (1988) 410
M. Babiker, M.P. Chamberlain, A. Ghosal and B.K. Ridley, A new resonance phenomenon associated with electron transitions in superlattices and single quantum wells 196 (1988) 422
J.P. Eisenstein, A.C. Gossard and V. Narayanamurti, Thermal conductance magneto-oscillations and electron–phonon coupling in GaAs/AlGaAs heterostructures 196 (1988) 445
M.A. Brummell, D.R. Leadley, R.J. Nicholas, J.J. Harris and C.T. Foxon, Competition between LO and TO phonon scattering in GaAs/GaAlAs heterojunctions 196 (1988) 451

M.H. Degani and O. Hipólito, Electron–interface-phonon interaction in GaAs/AlAs and InAs/GaSb heterojunctions 196 (1988) 459
A. Nougaoui and B. Djafari Rouhani, Complex band structure of acoustic waves in superlattices 199 (1988) 623
P.R. Underhill, An investigation of the anomalous surface phonon softening on noble metal ⟨111⟩ surfaces using the embedded atom method 200 (1988) L441

Surface photovoltage

B. Adamowicz and S. Kochowski, The contribution of surface effects to the surface photovoltage dependence on temperature for the real Si(111) surface 200 (1988) 172
S. Kuźmiński and A.T. Szaynok, Surface photovoltage investigations of $Cd_{1-x}Mn_xTe$ for $x = 0.01$ and 0.10 200 (1988) 192

Surface plasmons

B. Rothenhäusler and W. Knoll, On the influence of the propagation length of plasmon surface polaritons in the visible energy range for the optical characterization of heterogeneous thin films 191 (1987) 585
K. Saiki, Y. Sato, K. Ando and A. Koma, In-situ observation of defect formation in CaF_2(111) surfaces induced by low energy electron bombardment 192 (1987) 1
U. Schellenberger, M. Abraham and U. Trutschel, Free surface plasmon propagation: a method for metal–electrolyte interface studies in the infrared spectral region 192 (1987) 555
F. Sols and R.H. Ritchie, Self-energy of a charge near an interface 194 (1988) 275
T. Bornemann, A. Otto, K.H. Frank and B. Reihl, On the optical properties of coldly deposited silver films: comparison of EELS and reflectivity spectra 195 (1988) 161
M.H. Degani and O. Hipólito, Electron–interface-phonon interaction in GaAs/AlAs and InAs/GaSb heterojunctions 196 (1988) 459
J.K. Jain and S. Das Sarma, Elementary collective excitations in multilayered two-dimensional systems 196 (1988) 466
G.F. Giuliani, Plasmon mechanism for superconductivity in semiconducting heterostructures: the effect of acoustic plasmons 196 (1988) 476
P. Hawrylak, G. Eliasson and J.J. Quinn, Electron self-energy, effective mass and lifetime in a layered electron gas 196 (1988) 482
R.Q. Yang, X.J. Lu, X.L. Lei, L.M. Xie and C.H. Tsai, Density correlation function of a superlattice with wave function overlap 196 (1988) 487
Y.T. Wang and K.C. Lee, The correlation between surface plasma resonance and surface enhanced Raman scattering 197 (1988) 239
J.B.D. Soole and H.P. Hughes, Roughness-coupled light emission from tunnel junctions: the role of the fast surface plasmon 197 (1988) 250
U. Diebold, A. Preisinger, P. Schattschneider and P. Varga, Angle resolved electron energy loss spectroscopy on graphite 197 (1988) 430
L. Dobrzynski, Interface response theory of composite systems 200 (1988) 435

Surface roughness

J.P. Petrakian and P. Renucci, Influence of the depth resolution on the resulting AES profiles of components in multilayer thin film structures 195 (1988) 151
J. Hegarty and M.D. Sturge, Exciton localisation in quantum well structures 196 (1988) 555
W. Selke and J. Oitmaa, The roughening transition and the flattening of periodic surface profiles 198 (1988) L346
G. Gergely, Z. Bodó and P. Croce, Determination of the optical constants of metals and semiconductors by combining ellipsometry with electron spectroscopy microscopy and X-ray specular reflection analysis 200 (1988) 527

Surface segregation

E.E. Hajcsar, P.R. Underhill, W.W. Smeltzer and P.T. Dawson, A determination of the temperature dependence of segregation for a 56 a/o Ni–Co alloy on (111) and (210) faces using AES 191 (1987) 249
M. Militzer and J. Wieting, Segregation kinetics with nonhomogeneous initial distributions 192 (1987) L905
M.S. Spencer, α-brass formation in copper/zinc oxide catalysts. III. Surface segregation of zinc in α-brass 192 (1987) 336
D.A. Steigerwald and P. Wynblatt, Calculation of the anisotropy of equilibrium surface composition in metallic solid solutions using the embedded atom method 193 (1988) 287
S.-P. Jeng, P.H. Holloway and C.D. Batich, Equilibrium surface segregation for Ni–15%Cr(110) 193 (1988) L63
H. Jorke, Surface segregation of Sb on Si(100) during molecular beam epitaxy growth 193 (1988) 569
P.R. Underhill, An embedded atom calculation of surface segregation in Co–Ni alloys 195 (1988) 557
W. Unger, Comment on 'XPS, UPS and AES study of surface segregation and oxidation of Ni–Ru alloy' by M.S. Hegde, T.S. Sampath Kumar and R.M. Mallya 197 (1988) L292
M.S. Hegde, Reply to "Comment on 'XPS, UPS and AES study of surface segregation and oxidation of Ni–Ru alloy'" by W. Unger 197 (1988) L294
J.A. Barnard, P. Wynblatt, W.C. Johnson and W.W. Mullins, Surface segregation in solid and liquid Sn–Pb alloys 197 (1988) 363
W. Arabczyk, M. Militzer, H.-J. Müssig and J. Wieting, Contribution of pipe diffusion to surface segregation kinetics 198 (1988) 167
M. Es-Souni and A. Mosser, Comments on 'Surface segregation of Si on Fe single crystal surfaces and interaction with carbon' 199 (1988) 439
M. Militzer and J. Wieting, Segregation kinetics and surface phase transitions 200 (1988) 342

Surface states

P.A.P. Lindberg, L.I. Johansson and A.N. Christensen, Angle-resolved photoemission study of the electronic band structure of VC(100) 192 (1987) 353
P.A.P. Lindberg and L.I. Johansson, A surface state on VC(100) identified by photoelectron spectroscopy and gas adsorption studies 192 (1987) 366
H.J.W. Zandvliet and A. van Silfhout, Surface states on clean Ge(111) surfaces 195 (1988) 138

V.B. Shikin and I. Nachev, Edge electron states in charged two-dimensional systems 196 (1988) 494
R. Drube, V. Dose and A. Goldmann, Empty electronic states at the (1 × 1) and (5 × 20) surfaces of Pt(100): an inverse photoemission study 197 (1988) 317
E. Louis and F. Flores, Many-body effects in the Si(111)7 × 7 reconstructed surface 197 (1988) L269
J.E. Inglesfield and G.A. Benesh, Bulk and surface states on Al(001) 200 (1988) 135
B.A. Orlowski, Electronic surface states investigated by means of photoemission spectroscopy 200 (1988) 144
W. Maciejewski, Localized states in thin films with internal disturbed sublayer 200 (1988) 164
T. Radoń and S. Jaskólka, Photofield emission spectroscopy of electronic states near the Fermi level of ⟨111⟩ tungsten 200 (1988) 199
F. García-Moliner, Theory of single and multiple interfaces 200 (1988) 444
W. Kisiel, B. Stankiewicz and M. Stęślicka, Interface electronic structure of alkali halide contacts 200 (1988) 457
H. Flietner, Spectrum and nature of defects at interfaces of semiconductors with predominant homopolar bonding 200 (1988) 463

Surface stress

M. Lagos, J. Mahanty and V. Slusarenko, Subsurface traps for impurities 191 (1987) L806
S. Lehwald, F. Wolf, H. Ibach, B.M. Hall and D.L. Mills, Surface vibrations on Ni(110): the role of surface stress 192 (1987) 131

Surface structure, see also Low energy electron diffraction

S.M. Foiles, Reconstruction of fcc (110) surfaces 191 (1987) L779
K. Heinz, A. Barthel, L. Hammer and K. Müller, Kinetics of the irreversible transition Pt(110)1 × 1 → 1 × 2 as observed by LEED 191 (1987) 174
F. Besenbacher, I. Stensgaard and K. Mortensen, Adsorption position of deuterium on the Pd(100) surface determined with transmission channeling 191 (1987) 288
T. Takahashi, S. Nakatani, T. Ishikawa and S. Kikuta, Surface structure analysis of Si(111)$\sqrt{3} \times \sqrt{3}$-Bi by X-ray diffraction – approach to the solution of the phase problem 191 (1987) L825
S.M. Foiles, Ordered surface phases of Au on Cu 191 (1987) 329
A. Clarke, P.J. Rous, M. Arnott, G. Jennings and R.F. Willis, Thickness dependent relaxations in γ fcc Fe films on Cu(001): a LEED structural study 192 (1987) L843
Y.R. Wang and C.B. Duke, Surface reconstructions of ZnO cleavage faces 192 (1987) 309
K. Watanabe, D.J.W. Geldart and H.J. Kreuzer, Kinetics of 1 × 1 → 1 × 5 surface reconstruction on Ir(100) 192 (1987) 344
F. Jona, P. Jiang and P.M. Marcus, Results of an international LEED intensity project. II. Evaluation of structural parameters 192 (1987) 414
M. Lindroos, H. Pfnür and D. Menzel, Investigation of a disordered adsorption system by electron reflection: H/Ru(001) at intermediate coverages 192 (1987) 421
J.B. Pendry, K. Heinz, W. Oed, H. Landskron, K. Müller and G. Schmidtlein, A disordered model for the W(100)1 × 1 surface 193 (1988) L1
J. Schneider and D.M. Kolb, Potential-induced surface reconstruction of Au(100) 193 (1988) 579

K. Kato, T. Ide, S. Miura, A. Tamura and T. Ichinokawa, Si(100)2 × *n* structures induced by Ni contamination 194 (1988) L87
V.P. Zhdanov, On the application of LEED to study the dynamics of two-dimensional ordering 194 (1988) L100
P. Badziag and W.S. Verwoerd, Cluster modelling of the 2 × 1 chain reconstruction of the diamond (111) surface 194 (1988) 535
D.P. Woodruff, D.L. Seymour, C.F. McConville, C.E. Riley, M.D. Crapper, N.P. Prince and R.G. Jones, A simple X-ray standing wave technique for surface structure determination – theory and an application 195 (1988) 237
J.C. Boulliard and M.P. Sotto, Structural study of segregated sulphur on the stepped faces associated with Cu(100) 195 (1988) 255
R.J. Phaneuf and E.D. Williams, Metastable structures of Si(111) formed by laser-quenching 195 (1988) 330
M.G. Knibb and P.A. Maksym, The effect of reconstruction on RHEED intensities for the GaAs(001)2 × 4 surface 195 (1988) 475
Y. Darici, J. Marcano, H. Min and P.A. Montano, LEED measurements of one monolayer of iron epitaxially grown on Cu(111) 195 (1988) 566
C.B. Duke, A. Paton, Y.R. Wang, K. Stiles and A. Kahn, Dynamical analysis of low-energy electron diffraction intensities from CdSe($10\bar{1}0$) 197 (1988) 11
S.A. Barnett and A. Rockett, Monte Carlo simulations of Si(001) growth and reconstruction during molecular beam epitaxy 198 (1988) 133
D.R. Mullins and S.H. Overbury, The structure and composition of the NiAl(110) and NiAl(100) surfaces 199 (1988) 141
R. Souda, C. Oshima, S. Otani, Y. Ishizawa and M. Aono, Structure analysis of oxygen adsorbed TiC(111) by impact collision ion scattering spectroscopy 199 (1988) 154
J. Villain and I. Vilfan, Surface deconstruction of Au(110) 199 (1988) 165
E.C. Sowa, M.A. Van Hove and D.L. Adams, The missing-row model for the reconstructed Pt(110)–(1 × 2) surface: a LEED intensity analysis showing multilayer distortions 199 (1988) 174
A. Wander and B.W. Holland, The structure of formate on Cu(100) 199 (1988) L403
T.T. Tsong, D.L. Feng and H.M. Liu, Atomic structures in reconstruction of high index surfaces of silicon 199 (1988) 421
D.J. Holmes, D.R. Batchelor and D.A. King, Surface structure determination by SEXAFS: the reliability of bond lengths and coordination numbers from multi-shell analyses 199 (1988) 476
K. Yamazaki, K. Takayanagi, Y. Tanishiro and K. Yagi, Transmission electron microscope study of the reconstructed Au(001) surface 199 (1988) 595
K.C. Prince, K. Dückers, K. Horn and V. Cháb, Orientation of molecular oxygen on Pt(110) 200 (1988) L451

Surface thermodynamics

M. Monkenbusch and H.J. Lauter, Structure and dynamics of an 2D hydrogen bonded adlayer – imidazole on grafoil 191 (1987) 547
K. Morishige, K. Mimata and S. Kittaka, X-ray study of oxygen monolayers on graphite 192 (1987) 197
W. Korneta and Z. Pytel, The effect of surfaces on the domain structure 192 (1987) L899
R.Q. Hwang, E.D. Williams and R.L. Park, Thermal disordering of the ($\sqrt{3} \times \sqrt{3}$)R30° structure of Al on Si(111) 193 (1988) L53
G. Pirug and H.P. Bonzel, Ordering of potassium overlayers on Pt(111) 194 (1988) 159

H. Stenschke, Superfluidity and film formation of ^{4}He on metal surfaces 195 (1988) 133
K. Kern, R. David, P. Zeppenfeld and G. Comsa, Registry effects in the thermodynamic quantities of Xe adsorption on Pt(111) 195 (1988) 353
H.-W. Jiang, M.A. Stan and A.J. Dahm, Phase diagrams and melting in a screened two-dimensional system: electrons on helium films 196 (1988) 1
M. Saitoh, Melting and transport properties of two-dimensional Wigner crystals on liquid He 196 (1988) 8
D.C. Glattli, E.Y. Andrei and F.I.B. Williams, Specific and latent heat of the 2D electron solid 196 (1988) 17
W. Selke and J. Oitmaa, The roughening transition and the flattening of periodic surface profiles 198 (1988) L346
E.H. Conrad, L.R. Allen, D.L. Blanchard and T. Engel, Energy resolved measurements of the diffuse scattering near the roughening transition of Ni(113) 198 (1988) 207
H.J. Kreuzer and S.H. Payne, Nonequilibrium thermodynamics of a two-phase adsorbate 198 (1988) 235
J. Villain and I. Vilfan, Surface deconstruction of Au(110) 199 (1988) 165
E.V.L. de Mello and M.S.O. Massunaga, Renormalization group studies for hydrogen isotopes adsorbed on graphite 199 (1988) 579
H.J. Kreuzer and S.H. Payne, Desorption from a two-phase adsorbate: zero or fractional order 200 (1988) L433
J. Lampinen, R.M. Nieminen and K. Kaski, Molecular dynamics simulation of the structure and melting transition of the Si(001) surface 200 (1988) 101
L. Lajtar, A. Patrykiejew and S. Sokołowski, The influence of atomic impurities on the orientational transitions in localized monolayer films of diatomic molecules adsorbed on crystalline surfaces 200 (1988) 287
L. Lajtar, A. Patrykiejew and S. Sokołowski, Evaluation of the phase diagram for nitrogen adsorbed on graphite by means of the density functional theory 200 (1988) 298
A.G. Naumovets, V.V. Poplavsky and Yu.S. Vedula, Diffusion and phase transitions in barium monolayers on the (011) plane of tungsten 200 (1988) 321
J. Kołaczkiewicz, Measurement of work function changes as a research method for structural phase transitions in adsorbate islands: Cu/Mo(011) 200 (1988) 335
M. Militzer and J. Wieting, Segregation kinetics and surface phase transitions 200 (1988) 342
W. Korneta and Z. Pytel, The local autocorrelation time near the surface of a system with uniaxial anisotropy in a transverse field 200 (1988) 368

Tantalum

A. Wucher and H. Oechsner, Emission energy dependence of ionization probabilities in secondary ion emission from oxygen covered Ta, Nb and Cu surfaces 199 (1988) 567

Thermal desorption

M. Zinke-Allmang and L.C. Feldman, Overlayer energetics from thermal desorption on Si 191 (1987) L749
J. Hrbek, T.K. Sham and M.-L. Shek, Electronic structure of Mn overlayers on the Ru(001) surface 191 (1987) L772

H.R. Siddiqui, X. Guo, I. Chorkendorff and J.T. Yates, Jr., CO adsorption site exchange between step and terrace sites on Pt(112) 191 (1987) L813
G. Haase and M. Asscher, Adsorption and dissociation of N_2 on rhenium single crystal surfaces 191 (1987) 75
C.M. Greenlief, P.L. Radloff, X.-L. Zhou and J.M. White, The formation and decomposition kinetics of ethylidyne on Ru(0001) 191 (1987) 93
C.H. Mak, J.L. Brand, B.G. Koehler and S.M. George, Coverage dependence of the surface diffusion coefficient for hydrogen on Ru(001) 191 (1987) 108
F.T. Wagner and T.E. Moylan, A comparison between water adsorbed on Rh(111) and Pt(111), with and without predosed oxygen 191 (1987) 121
H. Gutleben and E. Bechtold, Desorption of sulfur from Pt(100) 191 (1987) 157
P.M. Blass, S. Akhter and J.M. White, The adsorption and decomposition of benzene on Ni(100) and the effects of pre-adsorbed C, O, H, and CO 191 (1987) 406
G.E. Mitchell, M.A. Henderson and J.M. White, The adsorption of PH_3 on Pt(111) and its influence on coadsorbed CO 191 (1987) 425
H. Kemmann, F. Müller and H. Neddermeyer, AES, LEED and TDS studies of Cu on Si(111)7×7 and Si(100)2×1 192 (1987) 11
F. Solymosi, J. Kiss and I. Kovács, Adsorption of HCOOH on Rh(111) and its reaction with preadsorbed oxygen 192 (1987) 47
G.R. Schoofs and J.B. Benziger, Reactions of pyrrole with Ni(100) 192 (1987) 373
J.W. Evans, D.K. Hoffman and H. Pak, Desorption from an immobile adlayer: exact one-dimensional kinetics 192 (1987) 475
H.R. Siddiqui, A. Winkler, X. Guo, P. Hagans and J.T. Yates, Jr., Chemisorption site retention during thermal desorption – a study of O_2 chemisorption on Pt(112) 193 (1988) L17
H. Dannetun, I. Lundström and L.-G. Petersson, Reactions between hydrocarbons and an oxygen covered palladium surface 193 (1988) 109
X.-L. Zhou, X.-Y. Zhu and J.M. White, A TPD, SIMS and $\Delta\phi$ study of the influence of coadsorbed potassium on the adsorption and decomposition of ethylene on Pt(111) 193 (1988) 387
E.G. Seebauer, A.C.F.Kong and L.D. Schmidt, The coverage dependence of the pre-exponential factor for desorption 193 (1988) 417
C. Benndorf and T.E. Madey, Adsorption of H_2O on clean and oxygen-predosed Ni(110) 194 (1988) 63
C.H.F. Peden, D.W. Goodman, J.E. Houston and J.T. Yates, Jr., Subsurface hydrogen on Ru(0001): quantification by Cu titration 194 (1988) 92
M. Ehsasi and K. Christmann, The interaction of hydrogen with a rhodium (110) surface 194 (1988) 172
M.L. Burke and R.J. Madix, SO_2 structure and reactivity on clean and sulfur modified Pd(100) 194 (1988) 223
M. Kiskinova and M. Tikhov, Adsorption of CO on Ru(10$\bar{1}$0) doped with different amounts of K and Cs 194 (1988) 379
J.G. Chen, P. Basu, L. Ng and J.T. Yates, Jr., A comparative study of the reactivities of H_2O, CH_3OH, and CH_3OCH_3 toward Al(111) 194 (1988) 397
J. Paul and F.M. Hoffmann, Hydrogen adsorption on alkali modified aluminum 194 (1988) 419
X.-L. Zhou and J.M. White, Adsorption and decomposition of methyl halides on Ni(100): a TPD, SIMS and AES study 194 (1988) 438
J.L. Brand, A.A. Deckert and S.M. George, Surface diffusion of hydrogen on sulfur-covered Ru(001) surfaces studied using laser-induced thermal desorption 194 (1988) 457

D.A. Harrington and P.R. Norton, Activated adsorption of deuterium on Ni(110): evidence for a high temperature desorption state 195 (1988) L135
E.A. Kurz and J.B. Hudson, The adsorption of H_2 and D_2 on Fe(110). II. Angle resolved thermal desorption spectroscopy and kinetic mechanism 195 (1988) 31
C. Egawa and Y. Iwasawa, Adsorption of CO and D_2 on Fe/Ru(001) surface 195 (1988) 43
D. Heskett, A. Baddorf and E.W. Plummer, Nitrogen-induced reconstruction of Cu(110): formation of a surface nitride 195 (1988) 94
A. Pavlovska, H. Steffen and E. Bauer, A comparison of thermal desorption techniques at high temperatures: Au on Mo(110) 195 (1988) 207
S.M. Gates, Adsorption kinetics of SiH_4, Si_2H_6 and Si_3H_8 on the Si(111)-(7 × 7) surface 195 (1988) 307
H.S. Tan, A. Morawski and W.E. Jones, Temperature programmed desorption studies of CO on CdTe(110) 195 (1988) L193
J.-W. He and P.R. Norton, Fractional-order desorption of D_2 from a Pd(110) surface 195 (1988) L199
E.I. Altman and R.J. Gorte, A comparison of the desorption of CO from Pt and Rh particles on α-$Al_2O_3\{0001\}$ 195 (1988) 392
F.T. Wagner, T.E. Moylan and S.J. Schmieg, Hydrophilic versus hydrophobic coadsorption: carbon monoxide and water on Rh(111) versus Pt(111) 195 (1988) 403
M. Zinke-Allmang, L.C. Feldman, J.R. Patel and J.C. Tully, The morphology of As terminated Si(111) from desorption kinetics 197 (1988) 1
J.M. Vohs and M.A. Barteau, Spectroscopic characterization of surface formates produced via reaction of HCOOH and $HCOOCH_3$ on the (0001) surface of zinc oxide 197 (1988) 109
J.L. Davis and M.A. Barteau, The influence of oxygen on the selectivity of alcohol conversion on the Pd(111) surface 197 (1988) 123
N.J. Tro and S.M. George, Temperature-programmed spectroscopy for surface kinetic analysis: absorption and laser-induced fluorescence techniques 197 (1988) L246
T. Matsushima, Angular distribution of the combinative desorption of nitrogen atoms on Ru(001) surfaces 197 (1988) L287
G.E. Mitchell, M.A. Schulz and J.M. White, The reaction of H_2S with adsorbed oxygen atoms on platinum (111) 197 (1988) 379
J.T. Roberts and C.M. Friend, Vibrational studies of 1-propanethiol on Mo(110). Spectroscopic evidence for low temperature thiolate formation 198 (1988) L321
C. Egawa and Y. Iwasawa, Ethane hydrogenolysis on a Ru(1,1,10) surface 198 (1988) L329
R.W. Judd, M.A. Reichelt and R.M. Lambert, Carbon monoxide chemisorption on Pt-dosed W(100): Pt strained overlayers, Pt crystallites and W/Pt surface alloys 198 (1988) 26
H.J. Kreuzer and S.H. Payne, Nonequilibrium thermodynamics of a two-phase adsorbate 198 (1988) 235
R. Kelly and R.W. Dreyfus, On the effect of Knudsen-layer formation on studies of vaporization, sputtering, and desorption 198 (1988) 263
S.D. Cameron and D.J. Dwyer, Charge transfer effects on CO bond cleavage: CO and potassium on Fe(100) 198 (1988) 315
J.-W. He, D.A. Harrington, K. Griffiths and P.R. Norton, The interaction of hydrogen with a Pd(100) surface 198 (1988) 413
Z. Ying and W. Ho, Thermal and photon induced reactions of CH_3CH_2OH on Si(111)7 × 7 198 (1988) 473

W.T. Tysoe and R.M. Lambert, Structure and reactivity at the halogen/metal interface: chemisorption, corrosion and reaction pathways in the Pd(111)–Cl_2 system 199 (1988) 1
J.W. Evans and H. Pak, Desorption from non-equilibrium island-forming adlayers 199 (1988) 28
E. Tronconi and L. Lietti, An exact single-curve analysis technique for TPD spectra 199 (1988) 43
D. Heskett, The interaction range in alkali metal-promoted systems 199 (1988) 67
F.P. Netzer, E. Bertel and A. Goldmann, Structure and surface chemistry of 5-membered cyclic molecules on Rh(111): pyrrole 199 (1988) 87
J.-P. Lu, M.R. Albert, S.L. Bernasek and D.J. Dwyer, Adsorption state conversion of CO on Fe(100) 199 (1988) L406
K.L. Carleton, B. Bourguignon and S.R. Leone, Desorption of a two-state system: laser probing of gallium atom spin–orbit states from silicon (100) 199 (1988) 447
D.N. Belton and S. J. Schmieg, Interaction of $[Rh(CO)_2Cl]_2$ with O_2 oxidized Al(100): effect of Al_2O_3 preparation on $[Rh(CO)_2Cl]_2$ decomposition 199 (1988) 518
A. Ertl, L. Röhrer and H. Wilsch, Simple model calculations on angular and velocity distributions of molecules after recombinative desorption 199 (1988) 537
H.J. Kreuzer and S.H. Payne, Desorption from a two-phase adsorbate: zero or fractional order 200 (1988) L433
I. NoorBatcha, R.R. Lucchese and Y. Zeiri, Anisotropic translational energy distribution due to gas-phase collisions in rapid desorption of molecules from surfaces 200 (1988) 113

Thin films

N.V. Joshi, Laser-assisted growth of thin films of $CuAlSe_2$ 194 (1988) L105
M.H. Grabow and G.H. Gilmer, Thin film growth modes, wetting and cluster nucleation 194 (1988) 333
J.P. Petrakian and P. Renucci, Influence of the depth resolution on the resulting AES profiles of components in multilayer thin film structures 195 (1988) 151
M. Zinke-Allmang, L.C. Feldman and M.H. Grabow, Thin film morphology: equilibrium between clusters and uniform layers at non-zero temperatures 200 (1988) L427
A. Bukaluk, M. Rozwadowski and R. Siuda, Preliminary results on Cu diffusion through grain boundaries of thin ion-plated Ag–Sn films 200 (1988) 381

Tin

M. Zinke-Allmang and L.C. Feldman, Overlayer energetics from thermal desorption on Si 191 (1987) L749
R. Souda, T. Aizawa, C. Oshima, S. Otani and Y. Ishizawa, Reionization contributions in low-energy scattering of He, Ne and Ar ions from Sn, Au, and $BaTiO_3$ 194 (1988) L119
M. Naparty, A. Dittmar-Wituski and J. Skonieczny, Are EELS and TCS methods complementary? 200 (1988) 519

Tin oxide

V. Lantto and P. Romppainen, Electrical studies on the reactions of CO with different oxygen species on SnO_2 surfaces 192 (1987) 243

R.G. Egdell, S. Eriksen and W.R. Flavell, A spectroscopic study of electron and ion beam reduction of $SnO_2(110)$ 192 (1987) 265

Titanium

C. Ocal and S. Ferrer, Low temperature diffusion of Pt and Au atoms through thin TiO_2 films on a Ti substrate 191 (1987) 147
M.R. Kozlowski, P.S. Tyler, W.H. Smyrl and R.T. Atanasoski, Photoelectrochemical microscopy of oxide films on metals: Ti/TiO_2 interface 194 (1988) 505
L. Eckertová, T. Jeníček and J. Pavluch, On the information depth of Auger electron appearance potential spectroscopy 200 (1988) 514

Titanium carbide

M. Wuttig, C. Oshima, T. Aizawa, R. Souda, S. Otani and Y. Ishizawa, Surface phonons of TiC(310) 193 (1988) 180
P.A.P. Lindberg and L.I. Johansson, Work function and reactivity of some crystal faces of substoichiometric transition-metal carbides 194 (1988) 199
S.A. Jansen and R. Hoffmann, Surface chemistry of transition metal carbides: a theoretical analysis 197 (1988) 474
R. Souda, C. Oshima, S. Otani, Y. Ishizawa and M. Aono, Structure analysis of oxygen adsorbed TiC(111) by impact collision ion scattering spectroscopy 199 (1988) 154
Ts.S. Marinova and D.V. Chakarov, Hydrogen isotope exchange in a coverage obtained on Ir(111) by ethylene adsorption 200 (1988) 309

Titanium oxide

C. Ocal and S. Ferrer, Low temperature diffusion of Pt and Au atoms through thin TiO_2 films on a Ti substrate 191 (1987) 147
P. Salvador, Subbandgap photoresponse of n-TiO_2 electrodes: transient photocurrent–time behaviour 192 (1987) 36
H. Onishi, T. Aruga, C. Egawa and Y. Iwasawa, Adsorption of CH_3OH, HCOOH and SO_2 on $TiO_2(110)$ and stepped $TiO_2(441)$ surfaces 193 (1988) 33
M.R. Kozlowski, P.S. Tyler, W.H. Smyrl and R.T. Atanasoski, Photoelectrochemical microscopy of oxide films on metals: Ti/TiO_2 interface 194 (1988) 505
M.E. Levin, K.J. Williams, M. Salmeron, A.T. Bell and G.A. Somorjai, Alumina and titania overlayers on rhodium: a comparison of the chemisorption and catalytic properties 195 (1988) 341
M.E. Levin, M. Salmeron, A.T. Bell and G.A. Somorjai, The characterization of Ti and Al oxide overlayers on rhodium and gold by XPS 195 (1988) 429
H. Gnaser and I.D. Hutcheon, Preferential emission of lighter isotopes in the initial stage of sputtering 195 (1988) 499
K. Tamura, U. Bardi and Y. Nihei, An investigation by angular resolved X-ray photoelectron spectroscopy of strong metal–support interaction (SMSI) in the Pt/TiO_2 system 197 (1988) L281
H. Onishi, T. Aruga, C. Egawa and Y. Iwasawa, Modification of surface electronic structure on $TiO_2(110)$ and $TiO_2(441)$ by Na deposition 199 (1988) 54

Tungsten

G.L. Kellogg, The mobility and structure of nickel atoms on the (100) plane of tungsten 192 (1987) L879
J.B. Pendry, K. Heinz, W. Oed, H. Landskron, K. Müller and G. Schmidtlein, A disordered model for the W(100)1 × 1 surface 193 (1988) L1
P.L. De Andres, P.J. Rous and J.B. Pendry, Phonon scattering in diffuse LEED 193 (1988) 1
V. Heine and J.J.A. Shaw, The microscopic origin of incommensurate phases on (001) surfaces of Mo and W 193 (1988) 153
V. Heine and J.J.A. Shaw, Split solitons in the incommensurate and streaked phases of W(001)/H surfaces 193 (1988) 170
A. Kara and A.E. DePristo, Dynamics of dissociative chemisorption: N_2/W(110) 193 (1988) 437
D.R. Mullins and S.H. Overbury, The structure of the carburized W(001) surface 193 (1988) 455
A.J. Melmed and N.D. Shinn, Nucleation and epitaxial growth of Cr crystals on stepped W surfaces with low-index facets 193 (1988) 475
J.-K. Zuo and G.-C. Wang, Defects in a W(112) surface 194 (1988) L77
A. McCann and J.S. Brown, A self-consistent calculation of the tunneling barrier of metal–vacuum–metal junctions: application to W–Vac–Au 194 (1988) 44
V.N. Ageev, O.P. Burmistrova and B.V. Yakshinskii, Electron-stimulated alkali metal desorption from the oxygen monolayer-covered tungsten surface 194 (1988) 101
E. Grossman, A. Bensaoula and A. Ignatiev, An XPS study of XeF_2 dry etching of tungsten silicide 197 (1988) 99
M. Delaunay, R. Geller, J. Debernardi, P. Ludwig and P. Sortais, Electron emission from a metal surface bombarded by highly charged ions 197 (1988) L273
R.W. Judd, M.A. Reichelt and R.M. Lambert, Carbon monoxide chemisorption on Pt-dosed W(100): Pt strained overlayers, Pt crystallites and W/Pt surface alloys 198 (1988) 26
B.D. Kay and M.E. Coltrin, Quantum tunneling and the activated chemisorption of methane on tungsten. Comment on 'Activated chemisorption of methane and tunneling' by T.-C. Lo and G. Ehrlich 198 (1988) L375
T.-C. Lo and G. Ehrlich, Activated chemisorption of methane and tunneling: a second look. Reply to a Comment by B.D. Kay and M.E. Coltrin 198 (1988) L380
G.S. Tompa, W.E. Carr and M. Seidl, Work function of metallic surfaces bombarded with cesium ions 198 (1988) 431
T. Radoń and S. Jaskółka, Photofield emission spectroscopy of electronic states near the Fermi level of ⟨111⟩ tungsten 200 (1988) 199
N. Ernst, Field enhanced adsorption 200 (1988) 275
A.G. Naumovets, V.V. Poplavsky and Yu.S. Vedula, Diffusion and phase transitions in barium monolayers on the (011) plane of tungsten 200 (1988) 321
R. Błaszczyszyn and M. Błaszczyszynowa, Diffusion of nickel on the (110) region of a tungsten field emitter 200 (1988) 354
L. Gładyszewski, Thermoemission of Eu^+ ions and its fluctuations 200 (1988) 386

Tunneling

Th. Berghaus, A. Brodde, H. Neddermeyer and St. Tosch, Scanning tunneling microscopy and spectroscopy on 7 × 7 reconstructed Si(111) surfaces containing defects 193 (1988) 235

A. McCann and J.S. Brown, A self-consistent calculation of the tunneling barrier of metal–vacuum–metal junctions: application to W–Vac–Au 194 (1988) 44
R. Lassnig, J. Smoliner, W. Boxleitner and E. Gornik, Tunneling study of GaAs/GaAlAs heterostructures 196 (1988) 367
U. Kunze, Tunneling study of mixed electric and magnetic subbands on Si(001) surfaces 196 (1988) 374
B. Movaghar, J. Leo and A. MacKinnon, Elastic and inelastic tunneling in multiple quantum well structures 196 (1988) 381
R. Sauer, T.D. Harris and W.T. Tsang, Photoluminescence and photoluminescence excitation study of electron–hole tunneling in $In_{0.53}Ga_{0.47}As/InP$ coupled-single quantum wells 196 (1988) 388
P.J. Price, Tunneling in AlGaAs by Γ–X scattering 196 (1988) 394
C.A. Payling, E.S. Alves, L. Eaves, T.J. Foster, M. Henini, O.H. Hughes, P.E. Simmonds, F.W. Sheard, G.A. Toombs and J.C. Portal, Evidence for sequential tunnelling and charge build-up in double barrier resonant tunnelling devices 196 (1988) 404
R.Q. Yang, X.J. Lu, X.L. Lei, L.M. Xie and C.H. Tsai, Density correlation function of a superlattice with wave function overlap 196 (1988) 487
H. Akera, S. Wakahara and T. Ando, Connection rule of enveiope functions at heterointerface 196 (1988) 694
J.B.D. Soole and H.P. Hughes, Roughness-coupled light emission from tunnel junctions: the role of the fast surface plasmon 197 (1988) 250
J.H. Coombs, M.E. Welland and J.B. Pethica, Experimental barrier heights and the image potential in scanning tunneling microscopy 198 (1988) L353
C.E.D. Chidsey, D.N. Loiacono, T. Sleator and S. Nakahara, STM study of the surface morphology of gold on mica 200 (1988) 45
A. Urbaniak-Kucharczyk, Calculation of the scanning tunneling microscope image in the case of Cu(100) 200 (1988) 247

Uranium

J.C. Schultz, C.A. Colmenares, J. Naegele and J.C. Spirlet, X-ray photoelectron spectroscopic study of the surface reactions of UFe_2 with O_2, CO and CO_2 198 (1988) 301

Vanadium

P.A.P. Lindberg, L.I. Johansson and A.N. Christensen, Angle-resolved photoemission study of the electronic band structure of VC(100) 192 (1987) 353
P.A.P. Lindberg and L.I. Johansson, A surface state on VC(100) identified by photoelectron spectroscopy and gas adsorption studies 192 (1987) 366

Water

F.T. Wagner and T.E. Moylan, A comparison between water adsorbed on Rh(111) and Pt(111), with and without predosed oxygen 191 (1987) 121
D.H. Ehlers, A.P. Esser, A. Spitzer and H. Lüth, Coadsorption of CO with methanol, water and xenon on Pt(111): band suppression in vibrational spectroscopy 191 (1987) 466

H. Onishi, C. Egawa, T. Aruga and Y. Iwasawa, Adsorption of Na atoms and oxygen-containing molecules on MgO(100) and (111) surfaces 191 (1987) 479
C. Benndorf and T.E. Madey, Adsorption of H_2O on clean and oxygen-predosed Ni(110) 194 (1988) 63
J.G. Chen, P. Basu, L. Ng and J.T. Yates, Jr., A comparative study of the reactivities of H_2O, CH_3OH, and CH_3OCH_3 toward Al(111) 194 (1988) 397
X.D. Peng, D.S. Edwards and M.A. Barteau, Reactions of O_2 and H_2O with magnesium nitride films 195 (1988) 103
F.T. Wagner, T.E. Moylan and S.J. Schmieg, Hydrophilic versus hydrophobic coadsorption: carbon monoxide and water on Rh(111) versus Pt(111) 195 (1988) 403
J.A. Rodriguez and C.T. Campbell, A quantum-chemical study of the adsorption of water, formaldehyde and ammonia on copper surfaces and water on ZnO(0001) 197 (1988) 567

Wetting

M.H. Grabow and G.H. Gilmer, Thin film growth modes, wetting and cluster nucleation 194 (1988) 333

Work function

K. Jacobi, Work-function changes and photoemission final-state relaxation of Ne, Ar, Kr, Xe, H_2 and N_2 on gallium 192 (1987) 499
X.-L. Zhou, X.-Y. Zhu and J.M. White, A TPD, SIMS and $\Delta\phi$ study of the influence of coadsorbed potassium on the adsorption and decomposition of ethylene on Pt(111) 193 (1988) 387
D. Fargues, J.J. Ehrhardt, M. Abon and J.C. Bertolini, Photoemission of adsorbed xenon on $Pt_xNi_{1-x}(111)$ single crystal alloy surfaces 194 (1988) 149
M. Ehsasi and K. Christmann, The interaction of hydrogen with a rhodium (110) surface 194 (1988) 172
P.A.P. Lindberg and L.I. Johansson, Work function and reactivity of some crystal faces of substoichiometric transition-metal carbides 194 (1988) 199
D.A. Harrington and P.R. Norton, Activated adsorption of deuterium on Ni(110): evidence for a high temperature desorption state 195 (1988) L135
E.M. Gullikson, A.P. Mills, Jr. and J.M. Phillips, Electron and positron work functions of cobalt silicide 195 (1988) L150
J.-W. He, D.A. Harrington, K. Griffiths and P.R. Norton, The interaction of hydrogen with a Pd(100) surface 198 (1988) 413
G.S. Tompa, W.E. Carr and M. Seidl, Work function of metallic surfaces bombarded with cesium ions 198 (1988) 431
D. Heskett, The interaction range in alkali metal-promoted systems 199 (1988) 67
Bao Xinhe, Dong Shuzhong and Deng Jingfa, Adsorption of oxygen on electrolytic silver by UPS and work function measurement 199 (1988) 493
K. Pater, Silicon work function in Al–SiO_2–Si system 200 (1988) 187
S. Sendecki, Photoemission measurements of KCl on Ag(110); adsorption parameters 200 (1988) 280
J. Kołaczkiewicz, Measurement of work function changes as a research method for structural phase transitions in adsorbate islands: Cu/Mo(011) 200 (1988) 335

X-ray absorption

F. Zaera, D.A. Fischer, S. Shen and J.L. Gland, Fluorescence yield near-edge X-ray absorption spectroscopy under atmospheric conditions: CO and H_2 coadsorption on Ni(100) at pressures between 10^{-9} and 0.1 Torr 194 (1988) 205
R.J. Madix, J.L. Solomon and J. Stöhr, The orientation of the carbonate anion on Ag(110) 197 (1988) L253
N. Toreis, X.E. Verykios, S.M. Khalid and G.B. Bunker, Bulk and surface characterization of supported Ag–Au alloy catalysts 197 (1988) 415
D.J. Holmes, D.R. Batchelor and D.A. King, Surface structure determination by SEXAFS: the reliability of bond lengths and coordination numbers from multi-shell analyses 199 (1988) 476
G. Comelli and J. Stöhr, SEXAFS studies of C–C bond lengths in condensed and chemisorbed molecules 200 (1988) 35

X-ray diffraction

M.G. Samant, M.F. Toney, G.L. Borges, L. Blum and O.R. Melroy, In-situ grazing incidence X-ray diffraction study of electrochemically deposited Pb monolayers on Ag(111) 193 (1988) L29

X-ray scattering

T. Takahashi, S. Nakatani, T. Ishikawa and S. Kikuta, Surface structure analysis of Si(111)$\sqrt{3} \times \sqrt{3}$-Bi by X-ray diffraction – approach to the solution of the phase problem 191 (1987) L825
K. Morishige, K. Mimata and S. Kittaka, X-ray study of oxygen monolayers on graphite 192 (1987) 197
D.P. Woodruff, D.L. Seymour, C.F. McConville, C.E. Riley, M.D. Crapper, N.P. Prince and R.G. Jones, A simple X-ray standing wave technique for surface structure determination – theory and an application 195 (1988) 237

Zinc

D. Iwanov, Surface morphology and growth kinetics of zinc single crystals as influenced by vapour diffusion 200 (1988) 252

Zinc oxide

Y.R. Wang and C.B. Duke, Surface reconstructions of ZnO cleavage faces 192 (1987) 309
M.S. Spencer, α-brass formation in copper/zinc oxide catalysts. I. Bulk equilibrium concentrations of zinc under methanol synthesis and water–gas shift reaction conditions 192 (1987) 323
M.S. Spencer, α-brass formation in copper/zinc oxide catalysts. II. Diffusion of zinc in copper and α-brass under reaction conditions 192 (1987) 329
M.S. Spencer, α-brass formation in copper/zinc oxide catalysts. III. Surface segregation of zinc in α-brass 192 (1987) 336
R. Kuwabara, H. Adachi and T. Morimoto, Calculation of the electronic structure of the polar ZnO(000$\bar{1}$) surface by the DV-Xα cluster method 193 (1988) 271

J.A. Rodriguez and C.T. Campbell, A quantum-chemical study of the chemisorption of ammonia, pyridine, formaldehyde, formate, and methoxy on ZnO(0001) 194 (1988) 475

J.M. Vohs and M.A. Barteau, Spectroscopic characterization of surface formates produced via reaction of HCOOH and $HCOOCH_3$ on the (0001) surface of zinc oxide 197 (1988) 109

C.T. Au, W. Hirsch and W. Hirschwald, Adsorption of carbon monoxide and carbon dioxide on annealed and defect zinc oxide ($000\bar{1}$) surfaces studied by photoelectron spectroscopy (XPS and UPS) 197 (1988) 391

C.T. Au, W. Hirsch and W. Hirschwald, Adsorption and interaction of carbon dioxide, formic acid and hydrogen/carbon dioxide mixtures on ($10\bar{1}0$) zinc oxide surfaces studied by photoelectron spectroscopy (XPS and UPS) 199 (1988) 507

Zinc selenide

A.V. Nurmikko, Quasi-two-dimensional excitons in selected II–VI compound semiconductor superlattices: the case of a small valence band offset 196 (1988) 632

Zirconium

C. Palacio, J.M. Sanz and J.M. Martinez-Duart, Low energy electron emission and EELS of clean and oxidised zirconium 191 (1987) 385

C.O. de González and E.A. García, An X-ray photoelectron spectroscopy study of the surface oxidation of zirconium 193 (1988) 305

INSTRUCTIONS TO CONTRIBUTORS TO SURFACE SCIENCE

Contributions must be written in English. **They should be submitted in triplicate with original drawings of the figures** (no larger than ca. 20×30 cm) and an abstract in English. All manuscripts other than Letters, originating in the Federal Republic of Germany, the Democratic Republic of Germany and Austria, should be submitted to the Regional Editor in Germany. All manuscripts, other than Letters, originating in European Countries, other than those mentioned above, as well as those originating in Africa, should be submitted to the Regional Editor in the UK. All manuscripts, other than Letters, originating in Japan, should be submitted to the Regional Editor in Japan. All manuscripts originating in North and South America, in Asia (except Japan), in Australia or New Zealand, should be submitted to the Editor. **All Surface Science Letters regardless of country of origin, should be submitted directly to the Editor.**
The authors are encouraged to list the names (and addresses) of three to four individuals who are qualified to serve as referees for their paper. The proposed referees should preferably (but not necessarily) reside in the same country or continent as the editor or regional editor to whom the paper is submitted. The referees selected will not necessarily be from the list suggested by the author.
The submission of a paper will be taken to imply that the author has satisfied himself that no copyright will thereby be infringed. Upon acceptance of an article by this journal, the author(s) will be asked to transfer copyright of the article to the publisher. This transfer will ensure the widest possible dissemination of information.

Rapid publication: Manuscripts not exceeding 1000 words in length, with a modest number of illustrations and a short abstract should be submitted to the Editor as "Surface Science Letters".

Manuscripts should be typed, double spaced, with wide margins. Original copies (or clear xerographic copies) are needed for the printer.
Vectors will be printed in bold-face italics (heavy, slanting type), and should be indicated by a wavy underlining in the typescript. No other symbols should be underlined. Special attention should be paid to characters which can easily be misread, such as i (lower case), I (cap.), l (el), 1 (one), ′ (prime), o (lower case), O (cap.), 0 (zero), u, v (lower case), ν (Greek nu), V (cap.), s, S, x, X, ×, p, P, ρ (Greek rho), etc. If necessary, unusual symbols should be explained in pencil in the margin.

Displayed formulae should be numbered and typed.

Each table should be typed on a separate sheet, and should have a title in addition to its serial number.

Line drawings for the figures should be originals, drawn in black India ink and carefully lettered (with the use of stencils). The lettering as well as the details should have proportionate dimensions so as not to become illegible or unclear after the usual reduction in printing; in general, the figures should be designed for reduction by a factor of two to three. Glossy prints can be accepted only if they are of good quality.

Photographs should be unmounted, unless they form part of a composite figure, and somewhat more contrasty than is desired in the printed version. Where necessary the top edge should be identified on the back. Original ink drawings and photographs will be returned after publication of the paper.

Colour printing: Illustrations may be considered for colour printing where the use of colours is essential. The decision on this rests with the Editor. The Publisher and the Author will each bear part of the extra costs involved. Standard rates apply for printing costs and figure processing costs. These rates are obtainable from the Editor.

Figure captions: Each figure should have a number and a caption. Captions should be typed on a separate sheet.

References to other papers should be consecutively numbered in the text: "Lagowski and Gatos [1] have shown ..." and listed at the end of the typescript as in the following examples:
[1] J.B. Pendry, K. Heinz, W. Oed, H. Landskron, K. Müller and G. Schmidtlein, Surface Sci. 193 (1988) L1.
[2] R.M.A. Azzam and N.M. Bashara, Ellipsometry and Polarized Light (North-Holland, Amsterdam, 1976).
[3] G. Heiland and H. Lüth, in: The Chemical Physics of Solid Surfaces and Heterogeneous Catalysis, Vol. 3B, Eds. D.A. King and D.P. Woodruff (Elsevier, Amsterdam, 1984) ch. 4.
References to unpublished or not readily accessible reports should be avoided.

Footnotes should be avoided as much as possible.

Corrections in the proofs should be limited to printer's errors; the authors may be charged for any other changes in the proofs.

Page charge and reprints: There is no page charge. Reprints may be ordered from the publisher. An order form will be sent to contributors together with the proofs.

surface science

CONTENTS

AUTHOR INDEX 1

SUBJECT INDEX 50